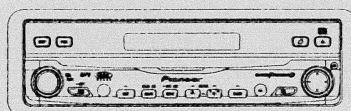


Pioneer *sound.vision.soul*

Service Manual



AVIC-N2/XU/UC

ORDER NO.
CRT3423

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-N2_{/XU/UC}

DVD AV NAVIGATION HEAD-UNIT

AVIC-X1R_{/XU/EW}

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3016	CRT3056	MS3	DVD Mech. Module:Circuit Description, Mech. Description, Disassembly

NOTE:

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

This product has the unit part number as below.

Unit Part No.	Description
CPN1955	Navigation Unit(AVIC-N2/XU/UC)
CPN1953	Hideaway Unit(AVIC-N2/XU/UC)
CPN1954	Navigation Unit(AVIC-X1R/XU/EW)
CPN1952	Hideaway Unit(AVIC-X1R/XU/EW)

*) The unit part numbers listed above are not for the service components.



For details, refer to "Important Check Points for Good Servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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K-ZZW. FEB. 2005 Printed in Japan

UC

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

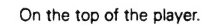
- Follow the adjustment steps in the service manual when servicing this unit. When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

-

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

Location: on the bottom of the unit



WARNING!

A specially instructed person should do servicing operation of the apparatus.

DVD:640~660nm
CD:770~810nm

Maximum output: 2.48mw (Emitting period : 9sec.)
DVD: 705μw (Emitting period : unlimited)

Transistors Q1101 and Q1102 in PCB drive the laser diodes for DVD and CD respectively. When Q1101 or Q1102 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

● Service Precautions

- A 1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

DVD MECHANISM MODULE section precaution

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
3. After replacing the pickup unit, be sure to check the grating.
4. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

NAVIGATION UNIT section precaution

- B 1. Inverter for LCD back light becomes a high voltage.
2. When inspecting the touch panel, use something thin with a round tip such as the touch pen. Furthermore, do not apply excessive force to the touch panel.
3. Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 and GGF1463 at the time of monitor adjustment. As you will find lands for 14 pins with 0.8mm pitch at the left top part of the monitor board, directly solder a flexible PCB of GGD1323 for adjustment. As GGD1322 is not used, be careful not to short the terminal.
4. The region code determination at the time of DVD hardware change is made by the destination (UC: Region 1, EW: Region 2) of the car control unit.
- C 5. If you reconnected the Hide-away unit, press the RESET button.




 is a trademark of DVD Format/Logo Licensing Corporation.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety

 Please conform to product regulations (such as safety, and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safety.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

● AVIC-N2/XU/UC

General

Rated power source	14.4 V DC (10.8 - 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Backup current	6.5 mA or less
Display unit:	
Dimensions (W x H x D):	
DIN	
Chassis	178 x 50 x 160 mm (7 x 2 x 6-1/4 in.)
Nose	188 x 58 x 34 mm (7-3/8 x 2-1/4 x 1-3/8 in.)
D	
Chassis	178 x 50 x 165 mm (7 x 2 x 6-1/2 in.)
Nose	170 x 46 x 29 mm (6-3/4 x 1-3/4 x 1-1/4 in.)
Weight	2.5 kg(5.5 lbs)
Hideaway unit:	
Dimensions (W x H x D)	
.....	180 x 30 x 140 mm (5-7/8 x 1-1/8 x 3-7/8 in.)
Weight	0.7 kg(1.5 lbs)

Navigation

GPS Receiver:

System	L1, C/Acode GPS
SPS (Standard Positioning Service)	
Reception system	8-channel multi-channel reception system
Reception frequency ...	1,575.42 MHz
Sensitivity	-130 dbm
Position update frequency	Approx. once per second

GPS antenna:

Antenna	Micro strip flat antenna/ right-handed helical polarization
Antenna cable	5.0 m(16 ft. 5 in.)
Dimensions (W x H x D)	
.....	33 x 13 x 36 mm (1-1/4 x 1/2 x 1-3/8 in.)
Weight	105 g(0.23 lbs)

Display

Screen size/aspect ratio	6.5 inch wide/16:9 (effective display area: 144 x 76 mm)
Pixels	336,960 (1,440 x 234)
Type	TFT active matrix, transmissive type
Color system	NTSC
Operating temperature range	-14 ~ +122 °F
Storage temperature range	-4 ~ +176 °F
Angle adjustment	50 ~ 110° (initial settings: 110°)

Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output	50 W x 4 50 W x 2 ch/4 Ω + 70 W x 1 ch/2 Ω (for subwoofer)
Load impedance	4 Ω (4 - 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/output impedance	2.0 V/100 ohm
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid	
Frequency	200/500/1k/2k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
High	
Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Loudness contour	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
Tone controls:	
Bass	
Frequency	40/63/100/160 Hz
Gain	±12dB
Treble	
Frequency	2.5k/4k/6.3k/10k Hz
Gain	±12dB
HPF:	
Frequency	0/80/125 Hz
Slope	-12 dB/oct
Subwoofer:	
Frequency	50/80/125 Hz
Slope	-18 dB/oct
Gain	±12dB
Phase	Normal/Reverse

DVD Drive

System	DVD-Video, Compact disc audio, MP3 system
Usable discs	DVD-Video, Compact disc, MP3
Region number	1
Signal format:	
Sampling frequency	44.1/48/96 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 - 44,000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IHF-A network) (CD: 96 dB (1 kHz) (IHF-A network))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
Audio	1.0 V (1 kHz, 0 dB)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3

FM tuner

Frequency range	87.9 - 107.9 MHz
Usable sensitivity	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 - 15,000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (±200 kHz)
Three-signal intermodulation (desired signal level)	30 dBf (two undesired signal level: 100 dBf)

AM tuner

Frequency range	530 - 1,710 kHz (10 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)

Note:

- Specifications and the design are subject to possible modifications without notice due to improvements.

● AVIC-X1R/XU/EW

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 – 14.4 V DC)
Earthing system	Negative type
Max. current consumption	10.0 A
Backup current	6.5 mA or less
Display unit:	
Dimensions (W x H x D):	
DIN	
Chassis	178 x 50 x 160 mm
Nose	188 x 58 x 34 mm
D	
Chassis	178 x 50 x 165 mm
Nose	170 x 46 x 29 mm
Weight	2.5 kg
Hideaway unit:	
Dimensions (W x H x D)	
	180 x 30 x 140 mm
Weight	0.7 kg

Navigation

GPS Receiver:

System	L1, C/Acode GPS
SPS (Standard Positioning Service)	
Reception system	8-channel multi-channel reception system
Reception frequency	1,575.42 MHz
Sensitivity	-130 dbm
Position update frequency	Approx. once per second

GPS aerial:

Aerial	Micro strip flat aerial/righthanded helical polarization
Aerial cable	5.0 m
Dimensions (W x H x D)	
	33 x 13 x 36 mm
Weight	105 g

Display

Screen size/aspect ratio	6.5 inch wide/16:9 (effective display area: 144 x 76 mm)
Pixels	336,960 (1,440 x 234)
Type	TFT active matrix, transmissive type
Colour system	NTSC/PAL compatible
Operating temperature range	-10 – +50 °C
Storage temperature range	-20 – +80 °C
Angle adjustment	50 – 110° (initial settings: 110°)

Audio

Maximum power output	50 W x 4 50 W x 2 ch/4 Ω + 70 W x 1 ch/2 Ω (for subwoofer)
----------------------	------------------------------------------------------------------

Continuous power output	27 W x 4 (DIN 45324, +B=14.4 V)
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/output impedance	2.0 V/100 ohm
Equalizer (3-Band Parametric Equalizer):	
Low	

Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB

Mid

Frequency	200/500/1k/2k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB

High

Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB

Loudness contour

Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)

Tone controls:

Bass

Frequency	40/63/100/160 Hz
Gain	±12dB

Treble

Frequency	2.5k/4k/6.3k/10k Hz
Gain	±12dB

HPF:

Frequency	50/80/125 Hz
Slope	-12 dB/oct

Subwoofer:

Frequency	50/80/125 Hz
Slope	-18 dB/oct
Gain	±12dB
Phase	Normal/Reverse

DVD Drive

System	DVD-Video, Compact disc audio, MP3 system
Usable discs	DVD-Video, Compact disc, MP3
Region number	2

Signal format:

Sampling frequency	44.1/48/96 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 – 44,000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IEC-A network)

Dynamic range	(CD: 96 dB (1 kHz) (IEC-A network)) 95 dB (1 kHz) (CD: 94 dB (1 kHz)) 0.008 % (1 kHz)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
Audio	1.0 V (1 kHz, 0 dB)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3

FM tuner

Frequency range	87.5 – 108.0 MHz
Usable sensitivity	8 dBf (0.7 µV/75 Ω, mono, S/ N: 30 dB)
50 dB quieting sensitivity	10 dBf (0.9 µV/75 Ω, mono)
Signal-to-noise ratio	75 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo) 0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)
Selectivity	80 dB (±200 kHz)

MW tuner

Frequency range	531 – 1,602 kHz (9 kHz)
Usable sensitivity	18 µV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

LW tuner

Frequency range	153 – 281 kHz (9 kHz)
Usable sensitivity	30 µV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IEC-A network)

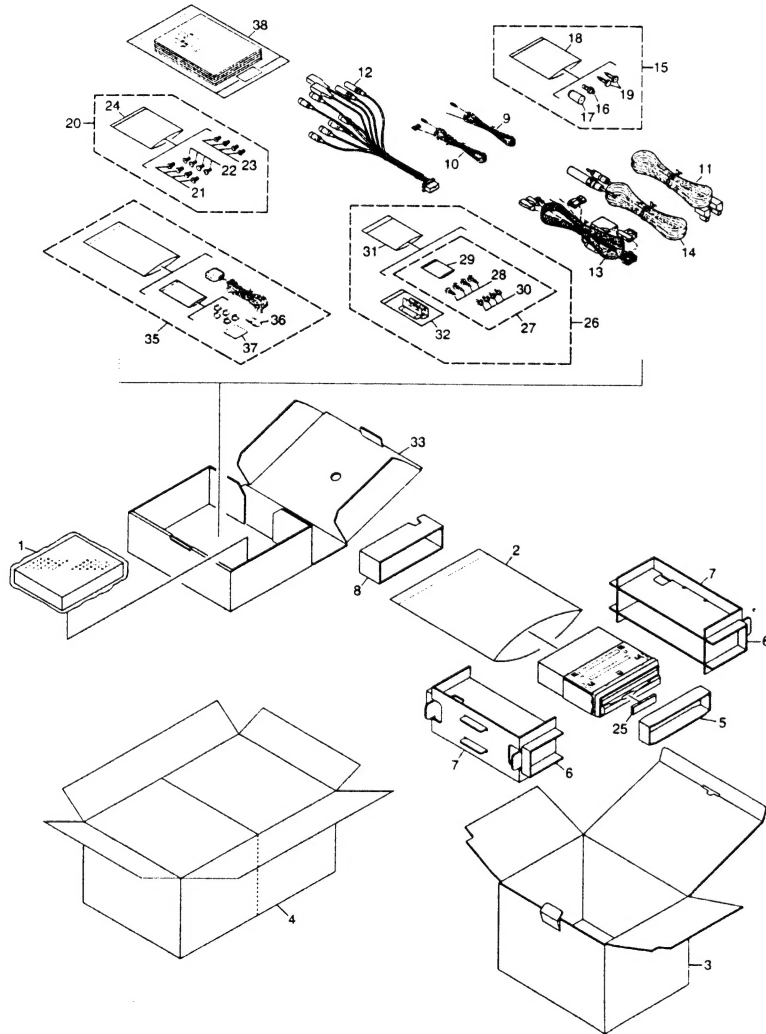
Note:

- Specifications and the design are subject to possible modifications without notice due to improvements.

2. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
• The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• Screw adjacent to ∇ mark on the product are used for disassembly.
• For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING (AVIC-N2/XU/UC)



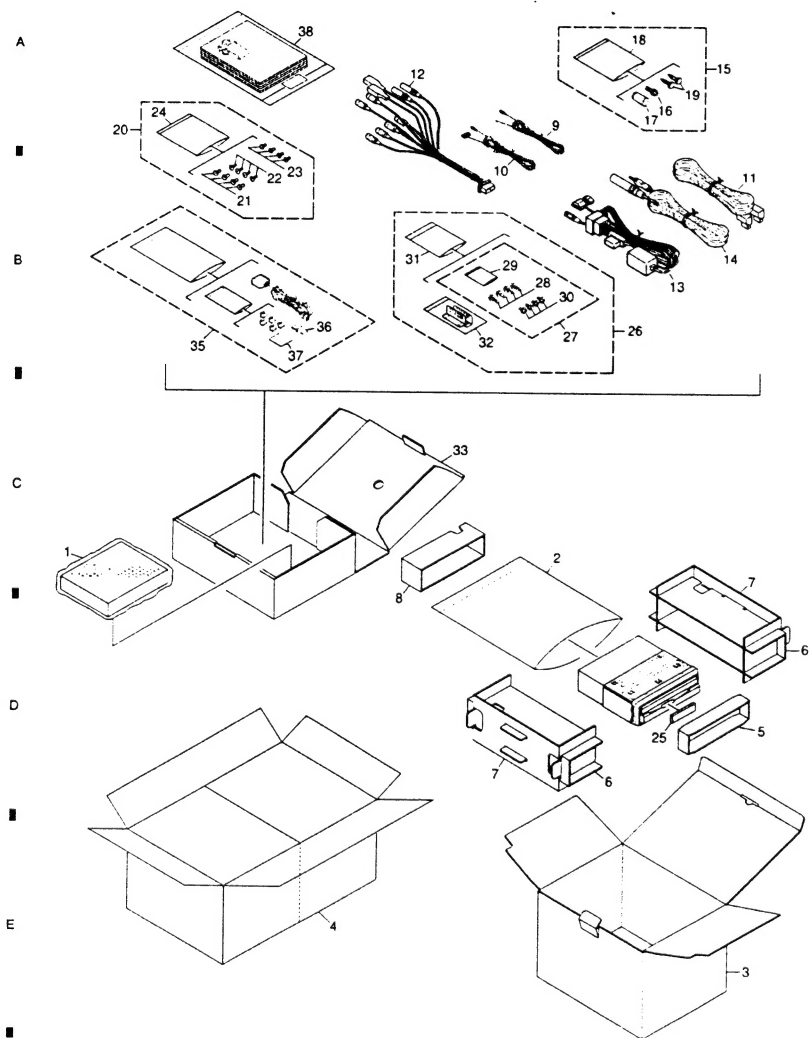
PACKING (AVIC-N2/XU/UC) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Air Cushioned Bag	CEG1007	31	Polyethylene Bag	CEG1163
2	Polyethylene Bag	CEG1173	32	Angle Assy	CXC1079
3	Carton	CHG5463	33	Sub Carton	CHG5440
4	Contain Box	CHL5463	34	*****	
5	Protector	CHP2879	35	GPS Antenna Assy	CXC4864
6	Protector	CHP2877	36	Water Proof Pad	CZN5442
7	Protector	CHP2876	37	Sheet	CZN7008
8	Protector	CHP2945	38-1	Polyethylene Bag	CEG1116
9	Cord	CDE5044	38-2	Owner's Manual	CRB2025
10	Cord	CDE6825	38-3	Owner's Manual	CRB2026
11	Cord Assy	CDE7398	38-4	Owner's Manual/POC/FRE	CRB2027
12	Cord Assy	CDE7399	38-5	Owner's Manual/POC/FRE	CRB2028
13	Cord Assy	CDE7487	38-6	Installation Manual	CRD3957
14	Antenna Cable	CDH1325	38-7	Caution Card	CRP1310
15	Accessory Assy	CEA3685	38-8	Card	ARY1048
16	Screw	CBA1650	38-9	Cleaning Cloth Assy	CEA3952
17	Bush	CNV1917	38-10	Registration Card	CRY1238
18	Polyethylene Bag	E36-615	38-11	Caution Card	CRP1321
19	Screw	JGZ20P070FTC	38-12	Connector	CXK1049
20	Screw Assy	CEA3686			
21	Screw	BMZ50P060FTC			
22	Screw(M4x6)	CBA1468			
23	Screw	CMZ50P060FTC			
24	Polyethylene Sheet	CNM4338			
25	Spacer	CNM9149			
26	Accessory Assy	CEA3996			
27	Screw Assy	CEA4396			
28	Screw	CBA1795			
29	Polyethylene Sheet	CNM4338			
30	Screw	HMF40P080FTC			

● Owner's Manual, Installation Manual

Part No.	Language
CRB2025, CRB2026	English
CRB2027, CRB2028	French
CRD3957	English, French

2.2 PACKING (AVIC-X1R/XU/EW)



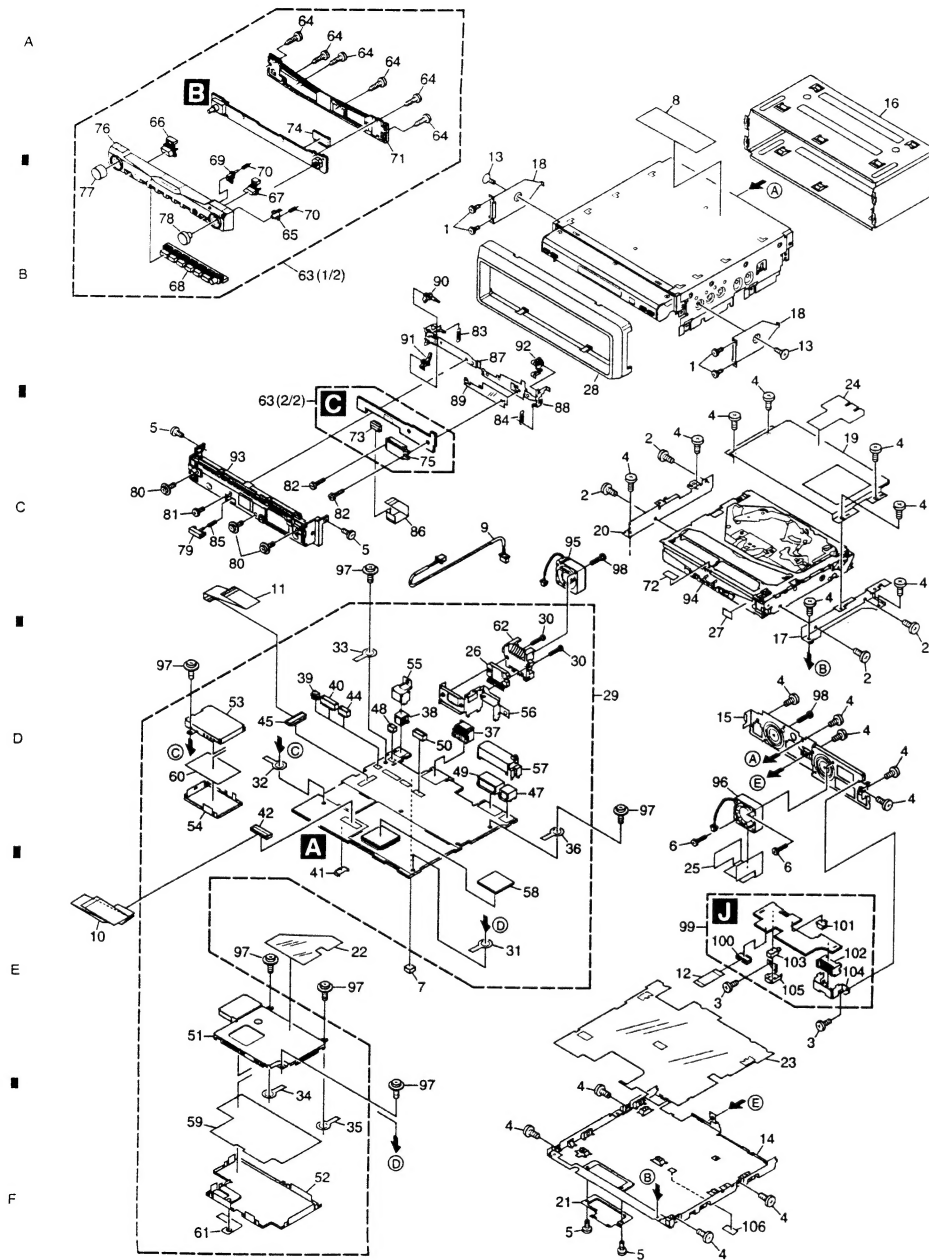
PACKING (AVIC-X1R/XU/EW) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Air Cushioned Bag	CEG1007	31	Polyethylene Bag	CEG1163
2	Polyethylene Bag	CEG-162	32	Angle Assy	CXC1079
3	Carton	CHG5462	33	Sub Carton	CHG5440
4	Contain Box	CHL5462	34	*****	
5	Protector	CHP2879	35	GPS Antenna Assy	CXC4864
6	Protector	CHP2877	36	Water Proof Pad	CZN5442
7	Protector	CHP2876	37	Sheet	CZN7008
8	Protector	CHP2945	38-1	Polyethylene Bag	CEG1116
9	Cord	CDE5044	38-2	Owner's Manual/PEE/ENG	CRB2029
10	Cord	CDE6825	38-3	Owner's Manual/PEE/ENG	CRB2030
11	Cord Assy	CDE7398	38-4	Owner's Manual/PEE/SPA	CRB2031
12	Cord Assy	CDE7399	38-5	Owner's Manual/PEE/SPA	CRB2032
13	Cord Assy	CDE7486	38-6	Owner's Manual/PEE/GER	CRB2033
14	Antenna Cable	CDH1325	38-7	Owner's Manual/PEE/GER	CRB2034
15	Accessory Assy	CEA3685	38-8	Owner's Manual/PEE/FRE	CRB2035
16	Screw	CBA1650	38-9	Owner's Manual/PEE/FRE	CRB2036
17	Bush	CNV1917	38-10	Owner's Manual/PEE/ITA	CRB2037
18	Polyethylene Bag	E36-615	38-11	Owner's Manual/PEE/ITA	CRB2038
19	Screw	JGZ20P070FTC	38-12	Owner's Manual/PEE/DUT	CRB2039
20	Screw Assy	CEA3686	38-13	Owner's Manual/PEE/DUT	CRB2040
21	Screw	BMZ50P060FTC	38-14	Installation Manual	CRD3958
22	Screw(M4x6)	CBA1468	38-15	Passport	CRY1013
23	Screw	CMZ50P060FTC	38-16	Warranty Card	CRY1157
24	Polyethylene Sheet	CNM4338	38-17	Cleaning Cloth Assy	CEA3952
25	Spacer	CNM9149	38-18	Sheet	CNM8603
26	Accessory Assy	CEA3996	38-19	Lock Tie	CNV-754
27	Screw Assy	CEA4396	38-20	Caution Card	CRP1322
28	Screw	CBA1795	38-21	Connector	CKX1049
29	Polyethylene Sheet	CNM4338			
30	Screw	HMF40P080FTC			

● Owner's Manual, Installation Manual

Part No.	Language
CRB2029, CRB2030	English
CRB2031, CRB2032	Spanish
CRB2033, CRB2034	German
CRB2035, CRB2036	French
CRB2037, CRB2038	Italian
CRB2039, CRB2040	Dutch
CRD3958	English, Spanish, German, French, Italian, Dutch

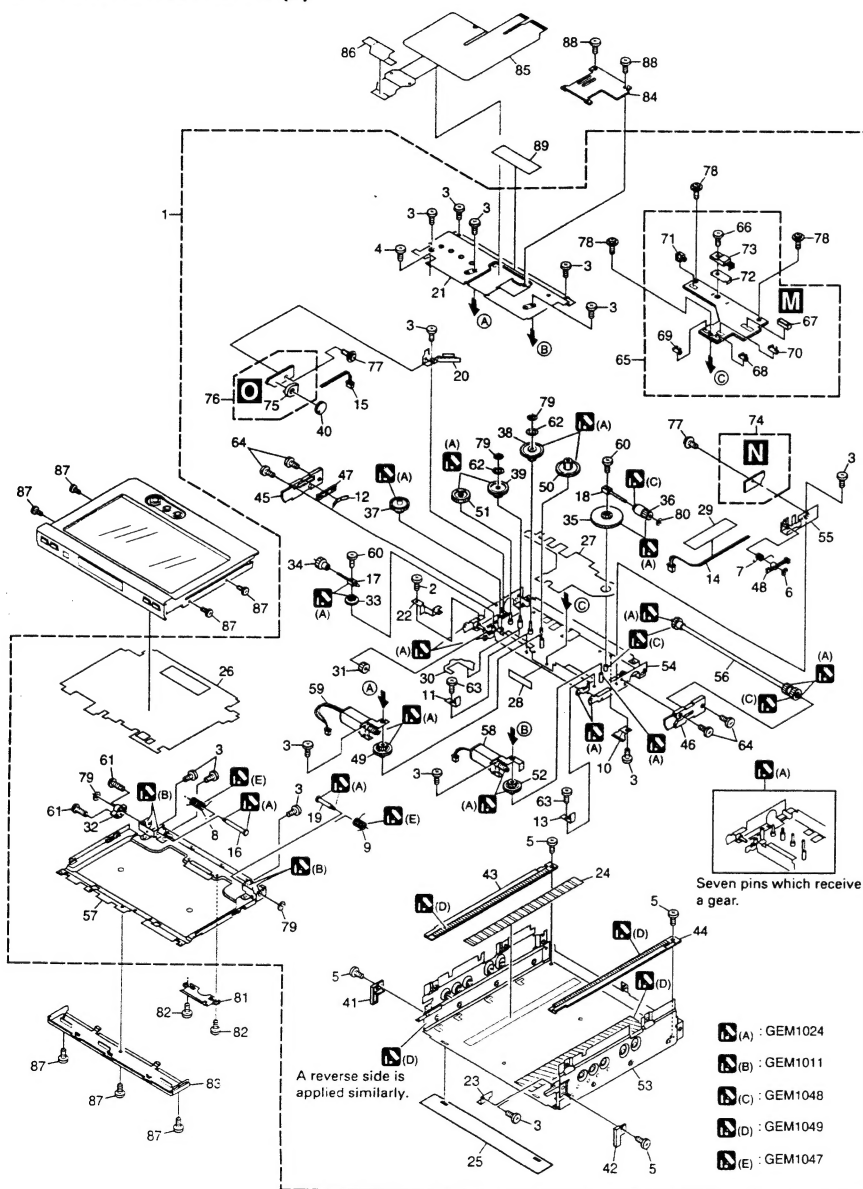
2.3 NAVIGATION UNIT (1)



NAVIGATION UNIT (1) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ20P030FZK	57	Holder	CND1955
2	Screw(M2x3)	CBA1527	58	Sheet	CNM7902
3	Screw	BMZ26P025FTC	59	Insulator	CNM8572
4	Screw	BMZ26P040FTC			
5	Screw(M2x2.5)	CBA1615	60	Insulator	CNM8573
6	Screw(M2 6x12)	CBA1620	61	Insulator	CNM8566
7	Spacer	CNM9200	62	Heat Sink	CNR1739
8	Label(EW model)	VRW1860	63	Detach Grille Assy(UC model)	CXC4305
9	Cord Assy	CDE7401		Detach Grille Assy(EW model)	CXC4304
10	FFC	CDE7740	64	Screw	BPZ20P080FZK
11	FFC	CDE7403	65	Button(DETACH)	CAC8431
12	FFC	CDE7727	66	Button(SRC)	CAC8432
13	Screw	CMZ50P060FTC	67	Button(EQ)	CAC8433
14	Case	CNB3155	68	Button	CAC8434
15	Panel	CNB3048	69	Button(RESET)	CAC8503
16	Holder	CND2812	70	Spring	CBH2680
17	Bracket	CND2815	71	Cover	CNS7759
18	Bracket	CND2816	72	Sheet	CNM9576
19	Bracket	CND2817	73	Connector(CN5901)	CKS3965
20	Bracket	CND1947	74	Connector(CN5501)	CKS4657
21	Holder	CND1948	75	Connector(CN5902)	CKS4658
22	Insulator	CNM8043	76	Sub Grille Unit(UC model)	CXC4636
23	Insulator	CNM8571		Sub Grille Unit(EW model)	CXC4635
24	Insulator	CNM8715	77	Knob Unit(VOLUME)	CXC4641
25	Cover	CNM8874	78	Knob Unit(SELECT)	CXC4642
26	IC(IC2405)	PAL007A	79	Button	CAC9276
27	Spacer	CNM9246	80	Screw(M2x4)	CBA1734
28	Panel	CNS7797	81	Screw(M2 6x2.5)	CBA1777
29	CC Unit(UC model)	CWM9948	82	Screw(M2x4)	CBA1778
	CC Unit(EW model)	CWM9947	83	Spring	CBH2681
30	Screw	BMZ26P160FTC	84	Spring	CBH2682
31	Terminal(CN100)	CKF1064	85	Spring	CBH2790
32	Terminal(CN604)	CKF1064	86	FFC	CDE7405
33	Terminal(CN605)	CKF1064	87	Holder	CND1840
34	Terminal(CN614)	CKF1064	88	Holder	CND1841
35	Terminal(CN615)	CKF1064	89	Insulator	CNM8510
36	Terminal(CN2601)	CKF1064	90	Arm	CNV8571
37	Connector(CN802)	CKM1332	91	Arm	CNV8572
38	Connector(CN2552)	CKS1940	92	Arm	CNV8573
39	Connector(CN971)	CKS4822	93	Panel Unit	CXC2693
40	Connector(CN608)	CKS3751	94	DVD Mechanism Module(MS3)	CXK6325
41	Connector(CN2701)	CKS3810	95	Fan Motor(M100)	CXM1284
42	Connector(CN2)	CKS4052	96	Fan Motor(M101)	CXM1289
43	*****		97	Screw	ISS26P050FTC
44	Connector(CN609)	CKS4068	98	Screw	PMZ20P160FTC
45	Connector(CN607)	CKS4132	99	Mother Tuner Unit(UC model)	CWM9946
46	*****			Mother Tuner Unit(EW model)	CWM9945
47	Connector(CN692)	CKS4473	100	Connector(CN2801)	CKS4871
48	Connector(CN2551)	VKN1928	101	Connector(CN2802)	CKS4822
49	Connector(CN731)	CKS4646	102	Connector(CN2803)	CKM1365
50	Connector(CN691)	CKS4814	103	Connector(CN2804)	CKS4752
51	Shield	CND2822	104	Holder	CND1956
52	Shield	CND2823	105	Holder	CND2824
53	Shield	CND1951	106	Sheet	CNM9536
54	Shield	CND1952			
55	Holder	CND1953			
56	Holder	CND1954			

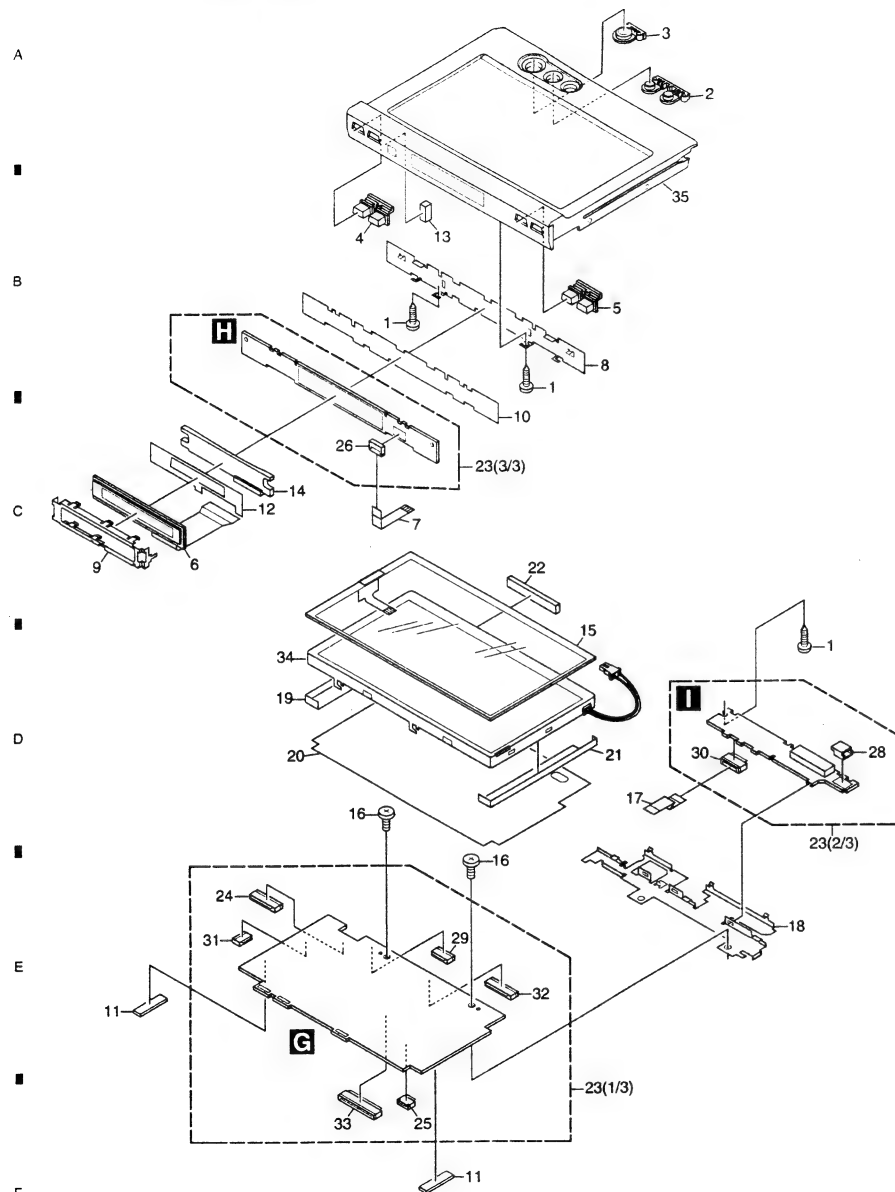
2.4 NAVIGATION UNIT (2)



NAVIGATION UNIT (2) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Drive Unit	CXB9508	51	Gear	CNV7524
2	Screw(M2x3)	CBA1082	52	Gear	CNV7529
3	Screw(M2x2.5)	CBA1250	53	Chassis Unit	CXB9509
4	Screw(M2x4)	CBA1277	54	Frame Unit	CXB9511
5	Screw(M2x1.5)	CBA1615	55	Holder Unit	CXB9512
6	Washer	CBF1038	56	Shaft Unit	CXB9513
7	Spring	CBH2645	57	Holder Unit	CXB9514
8	Spring	CBH2646	58	Motor Unit(M3001)(Position)	CXB9515
9	Spring	CBH2647	59	Motor Unit(M3002)(Angle)	CXB9516
10	Spring	CBL1585	60	Screw	CZB3082
11	Spring	CBL1586	61	Screw	CZB3083
12	Spring	CBL1587	62	Washer	CZB3084
13	Spring	CBL1642	63	Screw(M2x1.8)	CZB3085
14	Cord Assy	CDE7047	64	Screw(M2x4)	CZB3088
15	Cord Assy	CDE7213	65	Main Unit	CZW3087
16	Shaft	CLA4270	66	Screw	BMZ26P050FTC
17	Shaft	CLA4305	67	Connector(CN3801)	CKS4068
18	Shaft	CLA4306	68	Connector(CN3802)	CKS4732
19	Shaft	CLA4309	69	Connector(CN3803)	CKS4732
20	Bracket	CND1221	70	Connector(CN3807)	CKS4733
21	Case	CND1229	71	Connector(CN3809)	CKS4733
22	Holder	CND1318	72	Heat Sink	CND1228
23	Holder	CND1449	73	IC(IC3801)	BA00AST
24	Sheet	CNM8522	74	SW Unit	CZW3088
25	Sheet	CNM8037	75	Volume(VR3841)	CCW1025
26	Insulator	CNM8048	76	Volume Unit	CZW3089
27	Insulator	CNM8158	77	Screw	IMS20P020FTC
28	Sheet	CNM8159	78	Screw	IMS20P030FZK
29	Tape	CNM8160	79	Washer	YE15S
30	Insulator	CNM8294	80	Washer	CZB3089
31	Gear	CNR1664	81	Holder	CND2813
32	Gear	CNR1665	82	Screw	JFZ20P022FNI
33	Gear	CNR1677	83	Cover	CNS7760
34	Gear	CNR1678	84	Holder	CNV8569
35	Gear	CNR1679	85	Flexible PCB	CNP7621
36	Gear	CNR1680	86	Shield	CNM8969
37	Gear	CNR1688	87	Screw(M2x2)	CBA1753
38	Gear	CNR1708	88	Screw(M2x3)	CBA1797
39	Gear	CNR1709	89	Sheet	CNM9201
40	Gear	CNV7383			
41	Holder	CNV7384			
42	Holder	CNV7385			
43	Rack	CNV7386			
44	Rack	CNV7387			
45	Slider	CNV7388			
46	Slider	CNV7389			
47	Holder	CNV7390			
48	Arm	CNV7391			
49	Gear	CNV7522			
50	Gear	CNV7523			

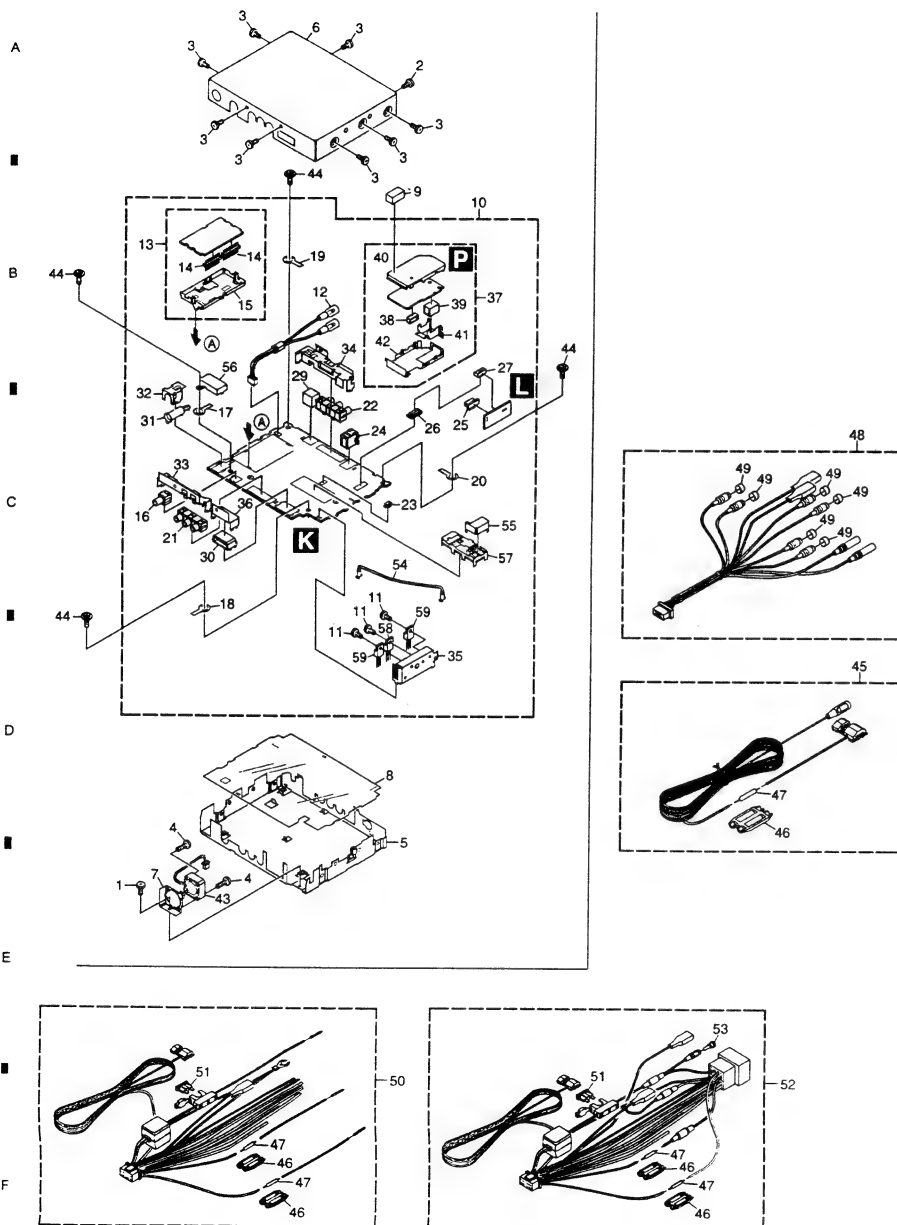
2.5 NAVIGATION UNIT (3)



NAVIGATION UNIT (3) SECTION PARTS LIST

Mark No.	Description	Part No.
1	Screw	BPZ20P060FTC
2	Button(NAVI/AV)	CAC8427
3	Button(NAVI MENU)	CAC8428
4	Button(OPEN/CLOSE)	CAC8430
5	Button(DISPLAY/PGM)(UC model)	CAC8504
	Button(DISPLAY/TA)(EW model)	CAC8429
6	LCD	CAW1870
7	FFC	CDE7488
8	Holder	CND2010
9	Holder	CND2825
10	Insulator	CNM8616
11	Spacer	CNM8707
12	Sheet	CNM8858
13	Cushion	CNM9148
14	Lighting Conductor	CNV8570
15	Touch Panel	CSX1083
16	Screw(M2x2.5)	CBA1615
17	FFC	CDE7196
18	Holder	CND2418
19	Sheet	CNM7784
20	Insulator	CNM8031
21	Sheet	CNM8265
22	Conductor	CNM8857
23	Monitor Unit(UC model)	CWM9950
	Monitor Unit(EW model)	CWM9949
24	Connector(CN4801)	CKS3991
25	Connector(CN4005)	CKS4054
26	Connector(CN4301)	CKS4054
27	****	
28	Connector(CN5002)	CKS4428
29	Connector(CN4003)	CKS4595
30	Connector(CN5001)	CKS4595
31	Connector(CN4681)	CKS4675
32	Connector(CN4002)	CKS4793
33	Connector(CN4701)	CKS4818
34	LCD Panel	CWX3056
35	Display Sub Grille Unit(UC model)	CXC4634
	Display Sub Grille Unit(EW model)	CXC4633

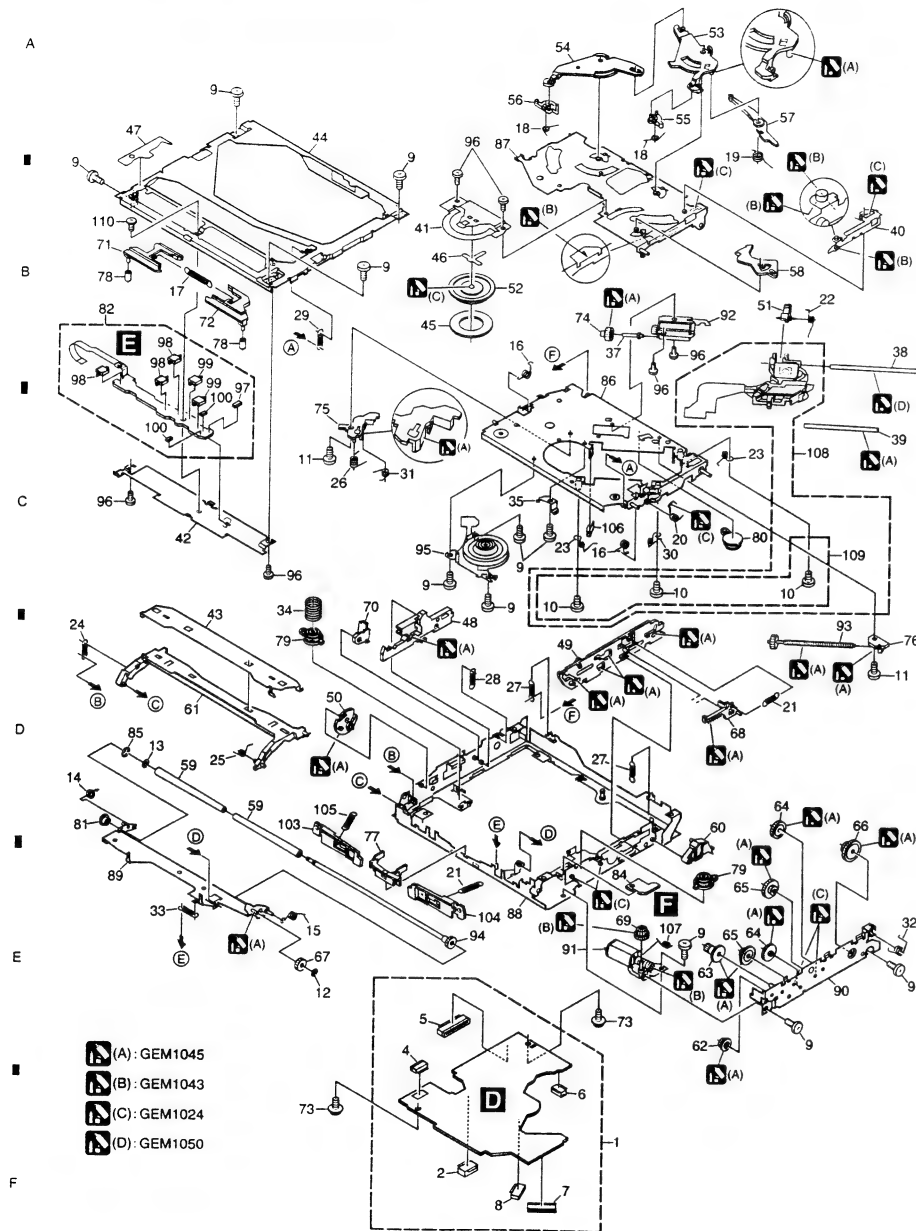
2.6 HIDEAWAY UNIT AND CORD ASSY



HIDEAWAY UNIT AND CORD ASSY SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ26P030FTC	47	Resistor	RS1/2PMF102J
2	Screw	BMZ26P060FZK	48	Cord Assy	CDE7399
3	Screw	BSZ26P060FTC	49	Cap	CNV6727
4	Screw(M2.6x12)	CBA1620	50	Cord Assy(UC model)	CDE7487
5	Chassis	CNA2697	51	Fuse(10A)	CEK1136
6	Case(UC model)	CNB3154	52	Cord Assy(EW model)	CDE7486
	Case(EW model)	CNB3153	53	Cap(EW model)	CKX-003
7	Holder	CND2821	54	Cord(EW model)	CDH1332
8	Insulator	CNM8565	55	Shield(EW model)	CND2814
9	Gasket	CNM8954	56	Shield(EW model)	CND1964
10	Mother Tuner Unit(UC model)	CWM9946	57	Tuner Unit(Y1801)(EW model)	CWE1674
	Mother Tuner Unit(EW model)	CWM9945	58	Transistor(Q1907)	2SB1629
11	Screw	BMZ26P060FTC	59	Transistor(Q1908, 1909)	2SD2396
12	Cord Assy	CDE7397			
13	FM/AM Tuner Unit(UC model)	CWE1651			
	FM/AM Tuner Unit(EW model)	CWE1650			
14	Connector(CN101,102)	CKS4653			
15	Holder	CND1432			
16	Pin Jack(CN1351)	CKB1065			
17	Terminal(CN1401)	CKF1064			
18	Terminal(CN1403)	CKF1064			
19	Terminal(CN1903)	CKF1064			
20	Terminal(CN1904)	CKF1064			
21	Pin Jack(CN1301)	CKB1071			
22	Pin Jack(CN1701)	CKB1071			
23	Connector(CN1950)	CKS4822			
24	Connector(CN1101)	CKS3414			
25	Connector(CN551)	CKS5205			
26	Connector(CN1841)	CKS5205			
27	Connector(CN552)	CKS5204			
28	*****				
29	Connector(CN1201)	CKS4590			
30	Connector(CN1001)	CKS4646			
31	Antenna Jack(CN1402)	CKX1056			
32	Holder	CND2818			
33	Holder	CND1901			
34	Holder	CND1902			
35	Holder	CND2819			
36	Holder	CND2820			
37	GPS Unit(UC model)	CWX2960			
	GPS Unit(EW model)	CWX2929			
38	Connector(CN461)	CKS4280			
39	Connector(CN504)	CKS4432			
40	Shield	CNC9192			
41	Holder	CNC9252			
42	Shield	CND1161			
43	Fan Motor(M102)	CXM1293			
44	Screw	ISS26P060FTC			
45	Cord	CDE6825			
46	Cap	CNS1472			

2.7 DVD MECHANISM MODULE

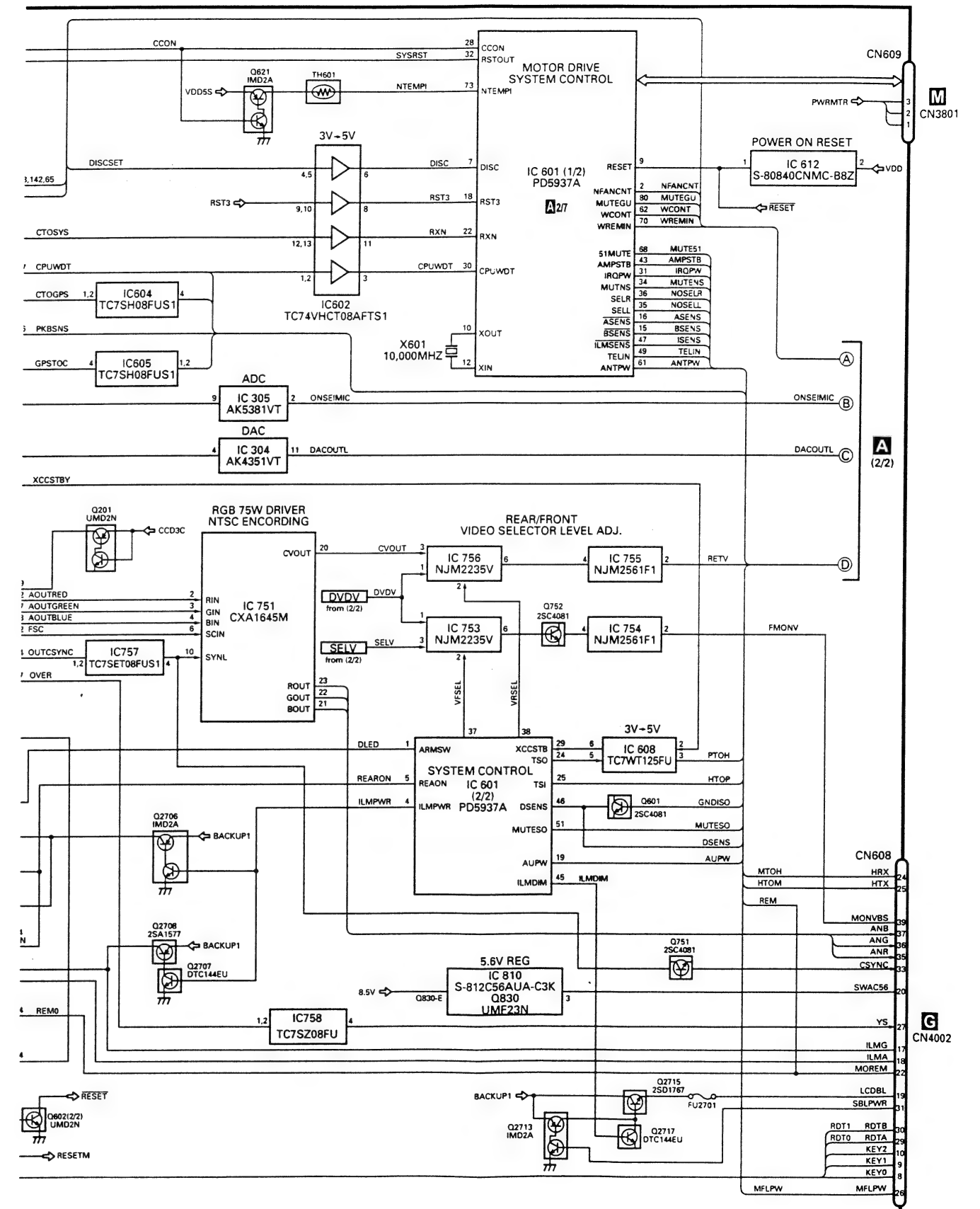
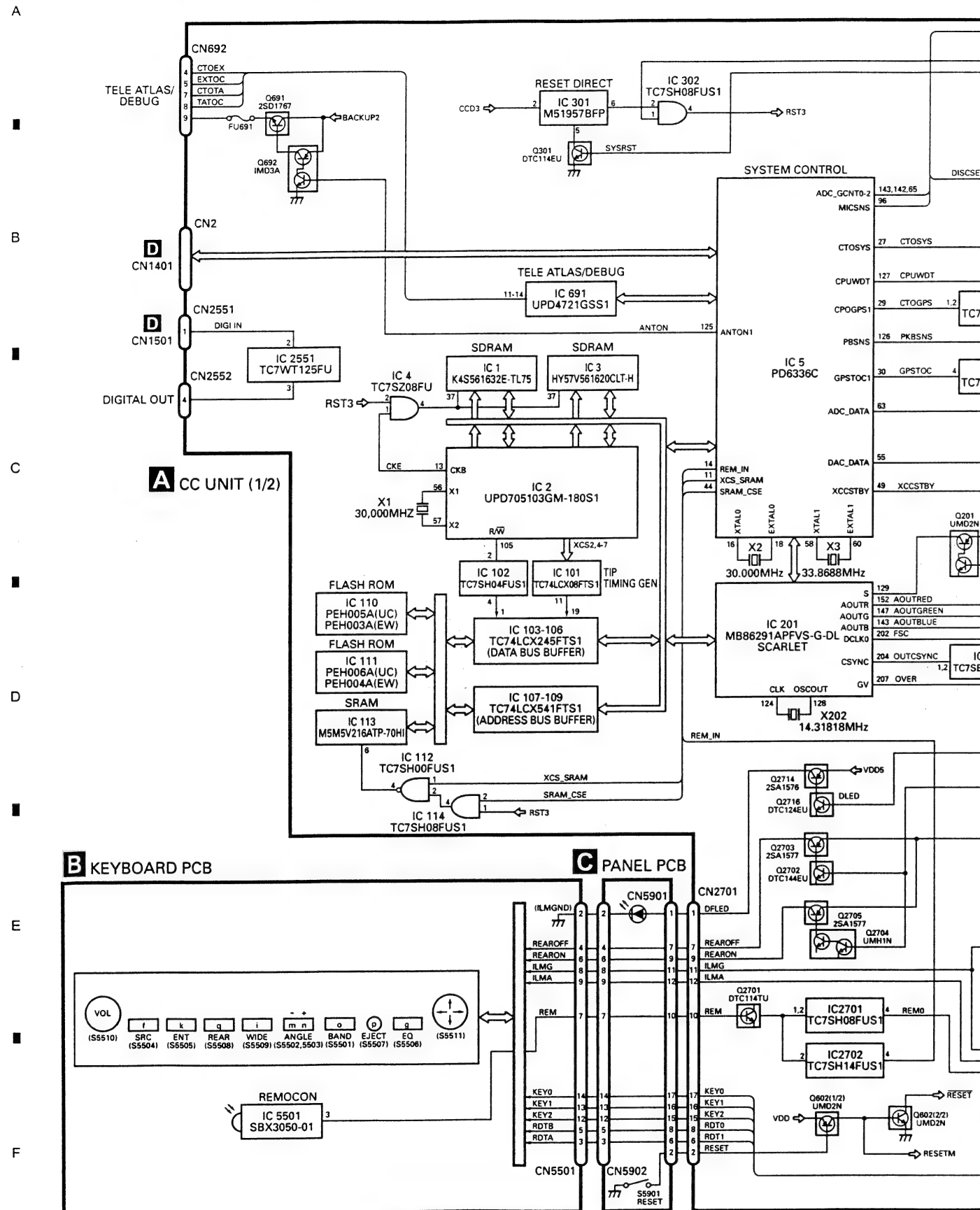


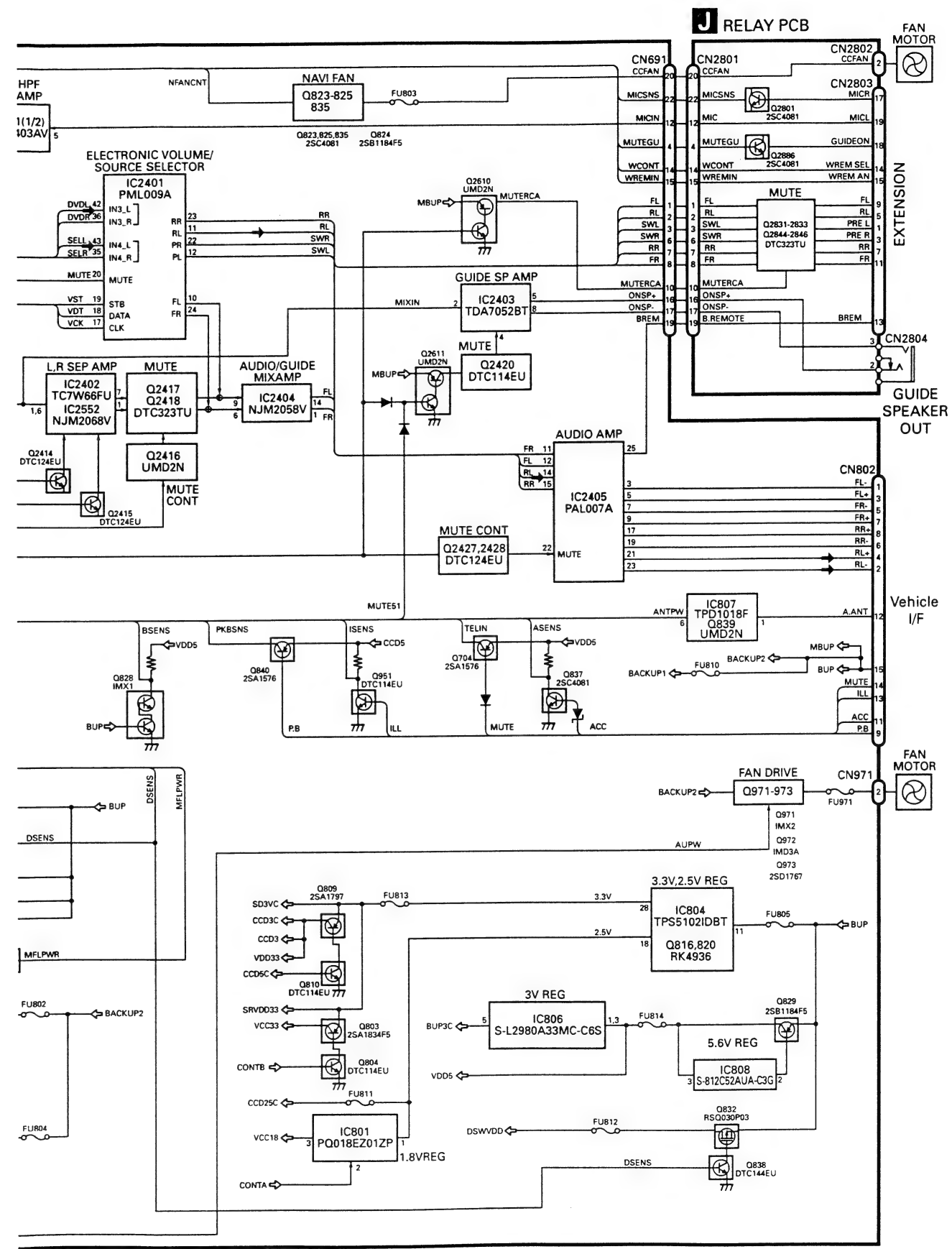
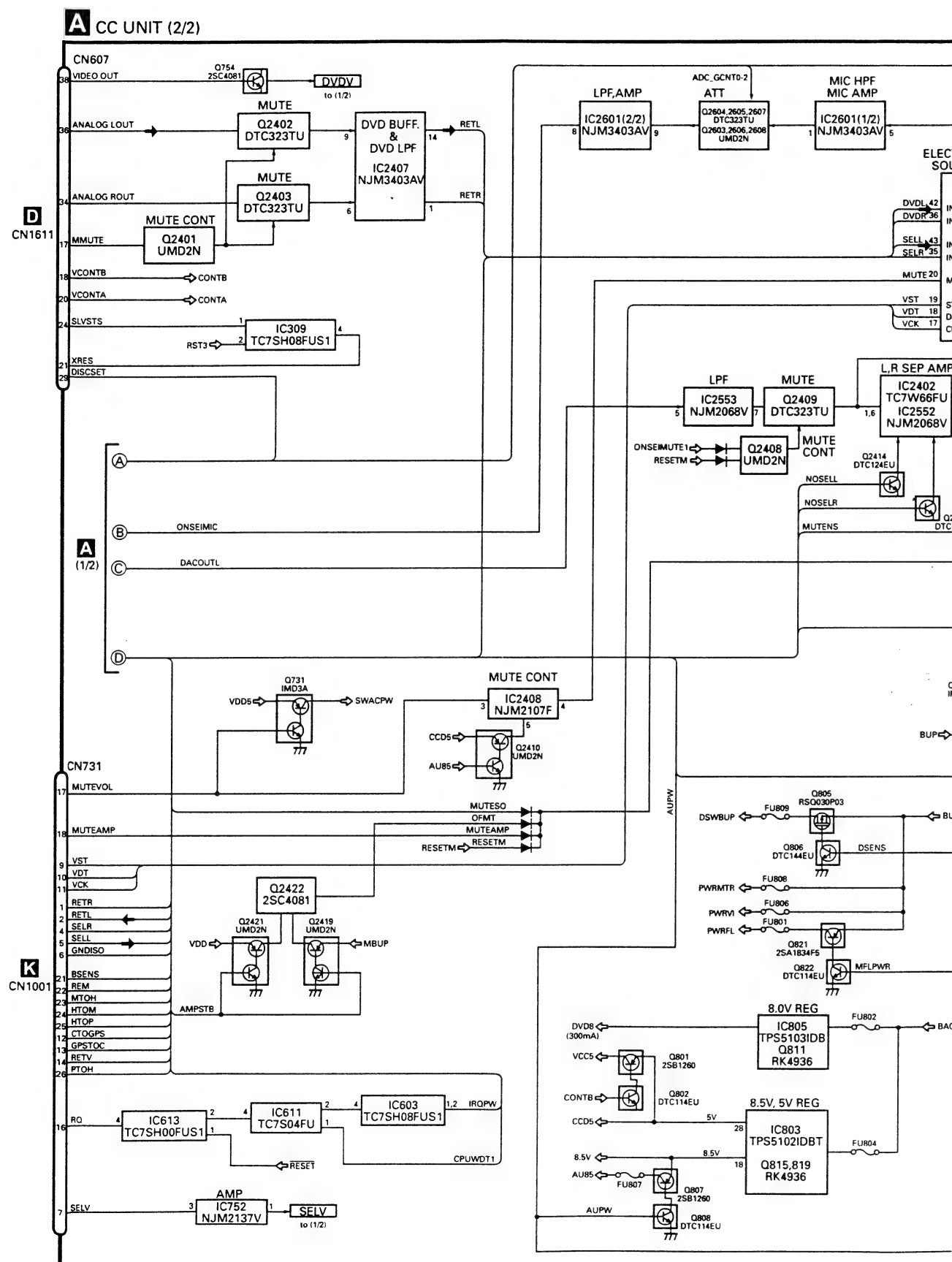
DVD MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DVD Core Unit(MS3)	CWX2941	57	Arm	CNV7163
2	Connector(CN1501)	CKS4282	58	Arm	CNV7164
3	Connector(CN1401)	CKS4052	59	Roller	CNV7165
4	Connector(CN1202)	CKS4624	60	Arm	CNV7166
5	Connector(CN1611)	CKS4052			
6	Connector(CN1603)	CKS4374	61	Guide	CNV8093
7	Connector(CN1101)	CKS4625	62	Gear	CNV7169
8	Connector(CN1201)	CKS4067	63	Gear	CNV7170
9	Screw	BMZ20P020FTC	64	Gear	CNV7171
10	Screw(M2 x 3.5)	CBA1571	65	Gear(Black)	CNV7172
11	Screw(M2 x 2.5)	CBA1623	66	Gear	CNV7173
12	Washer	CBF1038	67	Gear	CNV7174
13	Washer	CBF1064	68	Rack	CNV7175
14	Spring	CBH2586	69	Gear	CNV7176
15	Spring	CBH2587	70	Arm	CNV8077
16	Spring	CBH2588	71	Lever	CNV7178
17	Spring	CBH2589	72	Lever	CNV7179
18	Spring	CBH2590	73	Screw	IMS20P030FTC
19	Spring	CBH2591	74	Gear	CNV7181
20	Spring	CBH2592	75	Holder	CNV7183
21	Spring	CBH2593	76	Holder	CNV7184
22	Spring	CBH2594	77	Guide	CNV7745
23	Spring	CBH2595	78	Roller	CNV7344
24	Spring	CBH2596	79	Damper	CNV7470
25	Spring	CBH2597	80	Damper	CNV7471
26	Spring	CBH2598	81	Collar	CNV7645
27	Spring	CBH2599	82	Compound Unit(A)	CWX3154
28	Spring	CBH2600	83	*****	
29	Spring	CBH2601	84	Compound Unit(B)	CWX3156
30	Spring	CBH2602	85	Washer	YE20FTC
31	Spring	CBH2603	86	Chassis Unit	CXC3629
32	Spring	CBH2604	87	Arm Unit	CXB8681
33	Spring	CBH2605	88	Frame Unit	CXB8683
34	Spring	CBH2711	89	Arm Unit	CXC4701
35	Spring	CBL1564	90	Bracket Unit	CXB8685
36	*****		91	Motor Unit(LOADING)(M1)	CXC4659
37	Shaft	CLA3881	92	Motor Unit(CARRIAGE)(M2)	CXC4314
38	Shaft	CLA4206	93	Screw Unit	CXB8689
39	Shaft	CLA4207	94	Roller Unit	CXB8690
40	Lever	CNC9933	95	Motor(SPINDELE)(M3)	CXM1308
41	Holder	CNC9939	96	Screw	JFZ20P018FTC
42	Holder	CND2251	97	Photo-transistor(Q1299)	CPT231SCTD
43	Holder	CNC9941	98	Spring Switch(S1201,1202,1203)	CSN1069
44	Frame	CND2250	99	Spring Switch(S1204,1205)	CSN1070
45	Sheet	CNM6883	100	Resistor(R1298,1299)	RS1/16S0R0J
46	Sheet	CNM8283	101	*****	
47	Sheet	CNM8643	102	*****	
48	Lever	CNV8076	103	Arm	CNV7742
49	Lever	CNV7155	104	Arm	CNV7743
50	Cam	CNV7156	105	Spring	CBH2710
51	Rack	CNV7157	106	Spring	CBL1643
52	Clamper	CNV7158	107	Spring	CBH2712
53	Arm	CNV7159	108	Pickup Unit(Service)(Screw)	GXX1234
54	Arm	CNV7160	109	Screw Assy	CXX1750
55	Arm	CNV7161	110	Screw(M1.4 x 1.4)	CBA1787
56	Arm	CNV7162			

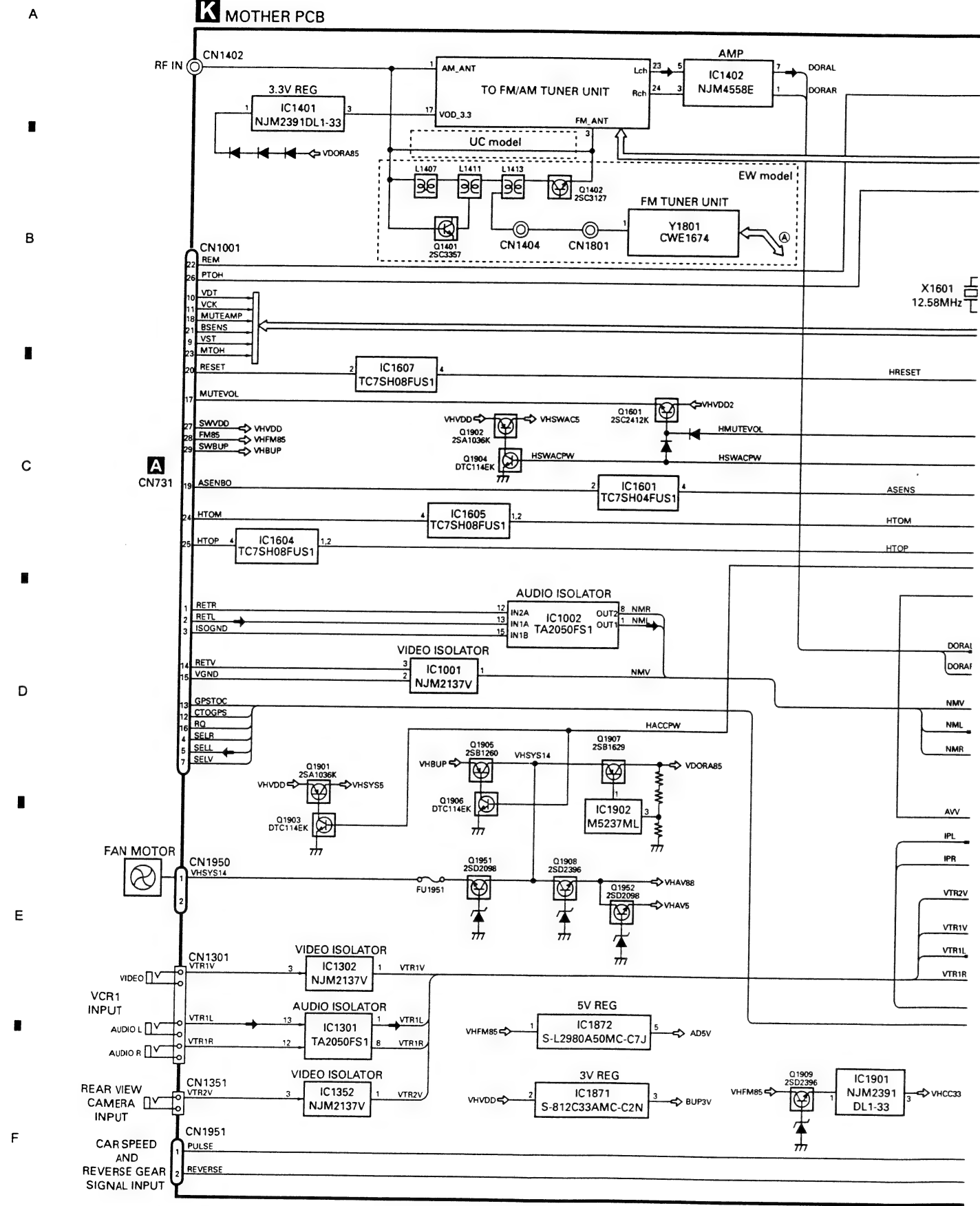
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

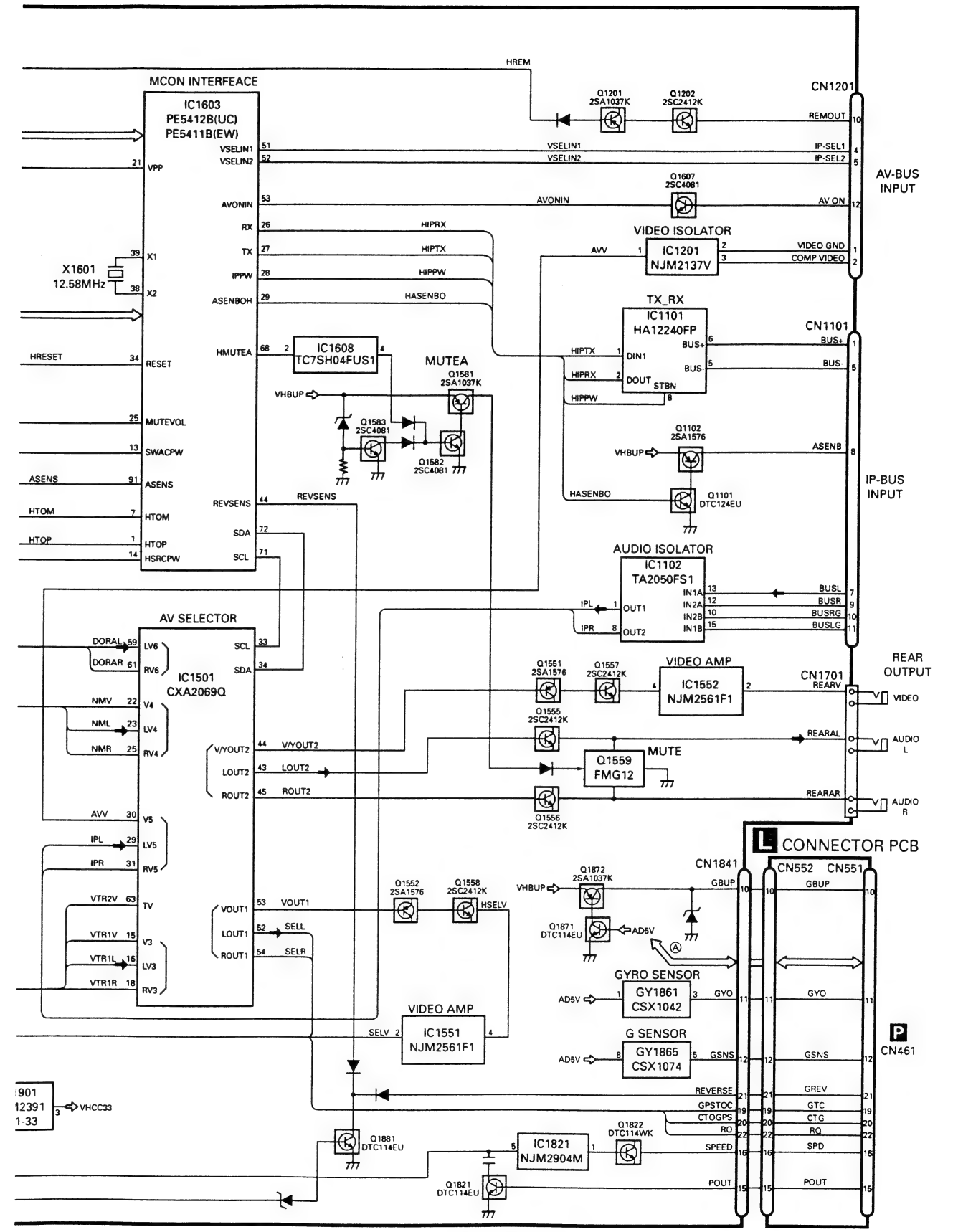




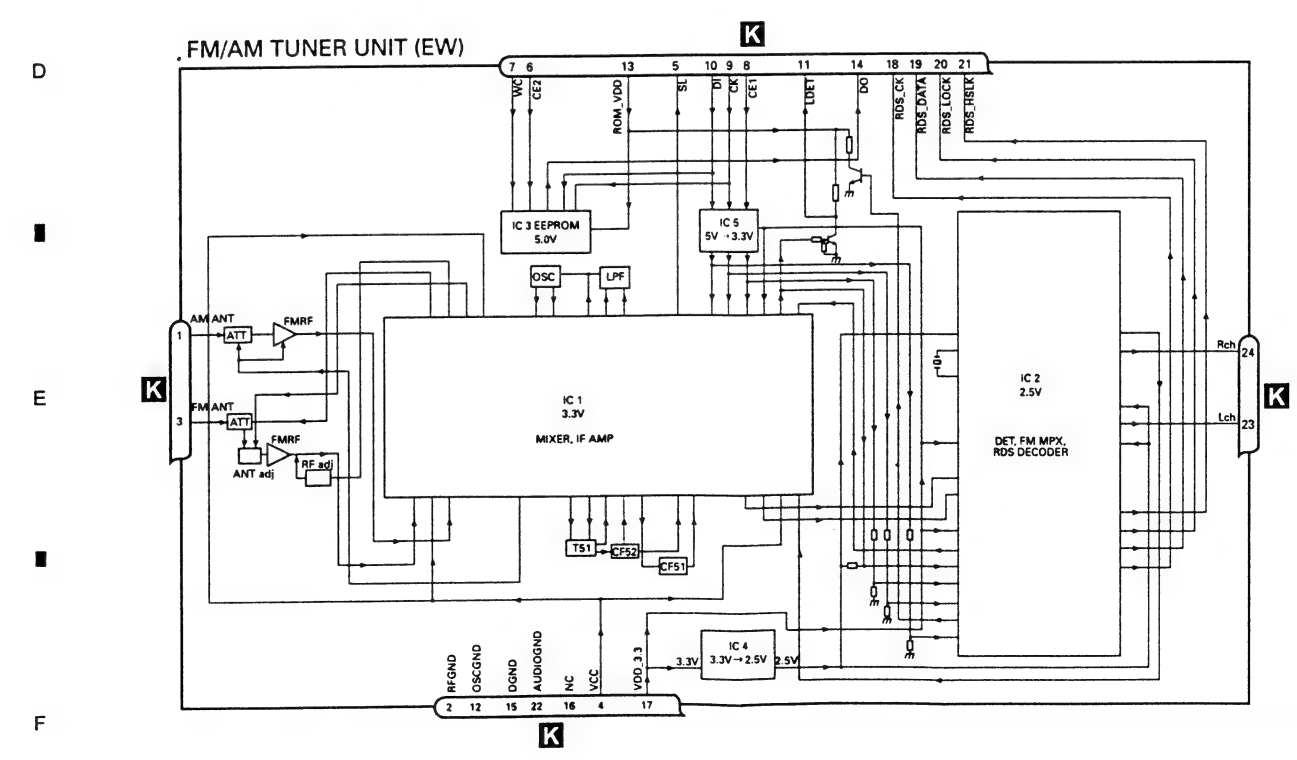
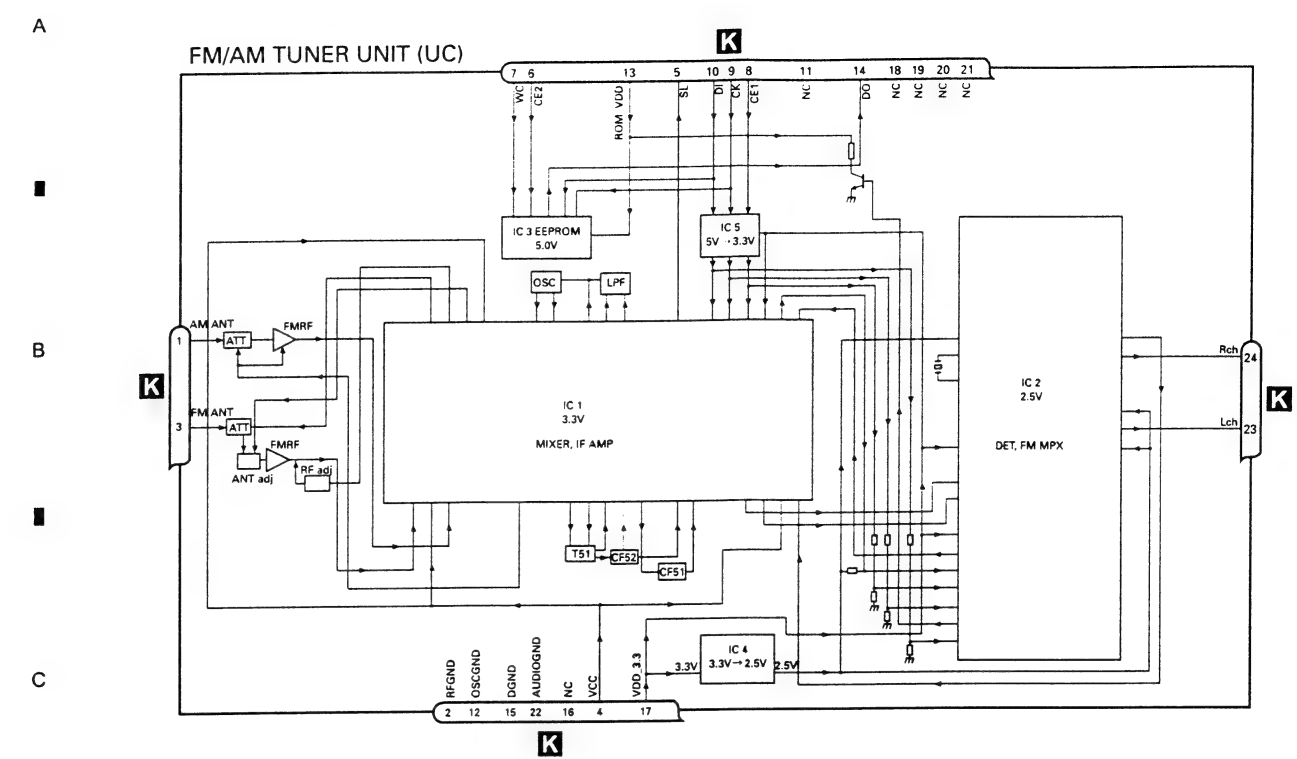
K MOTHER PCB

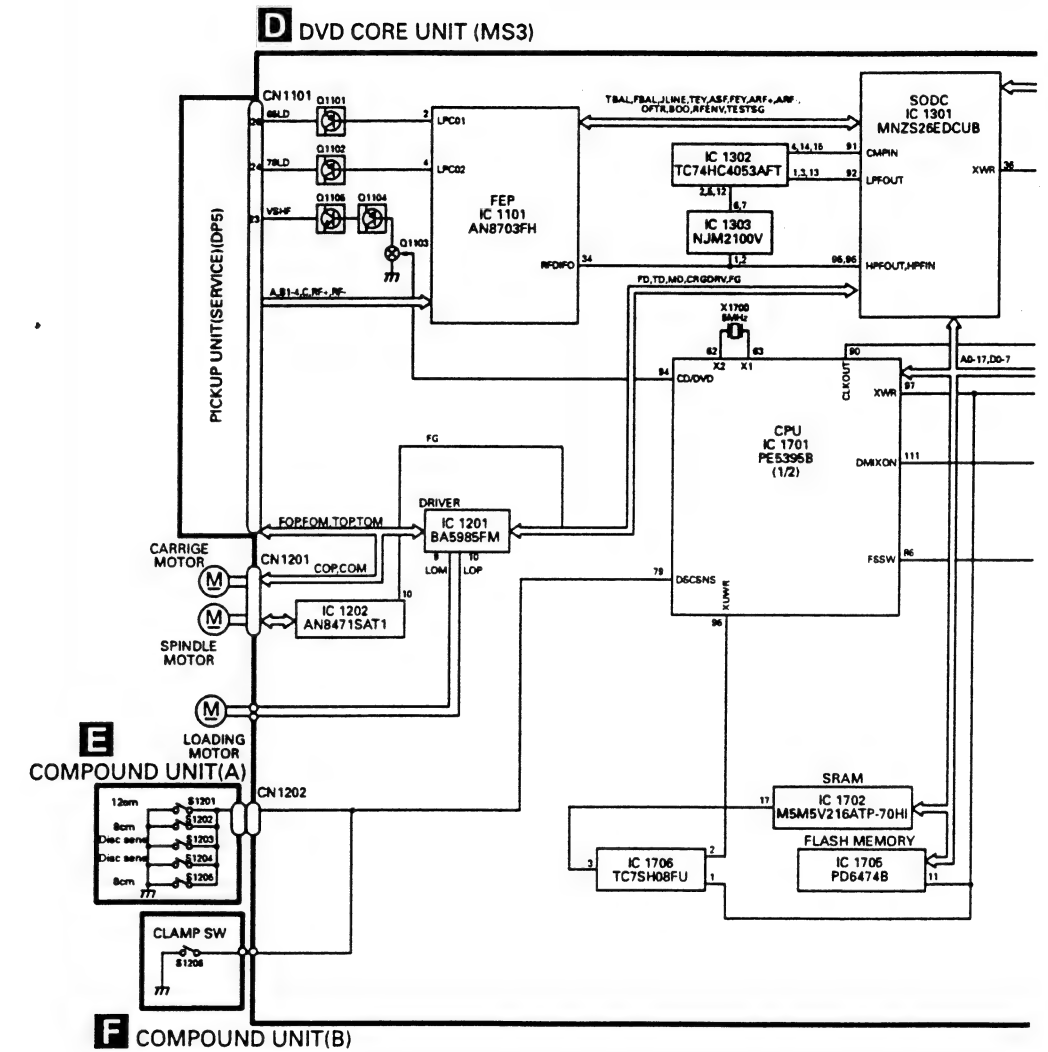
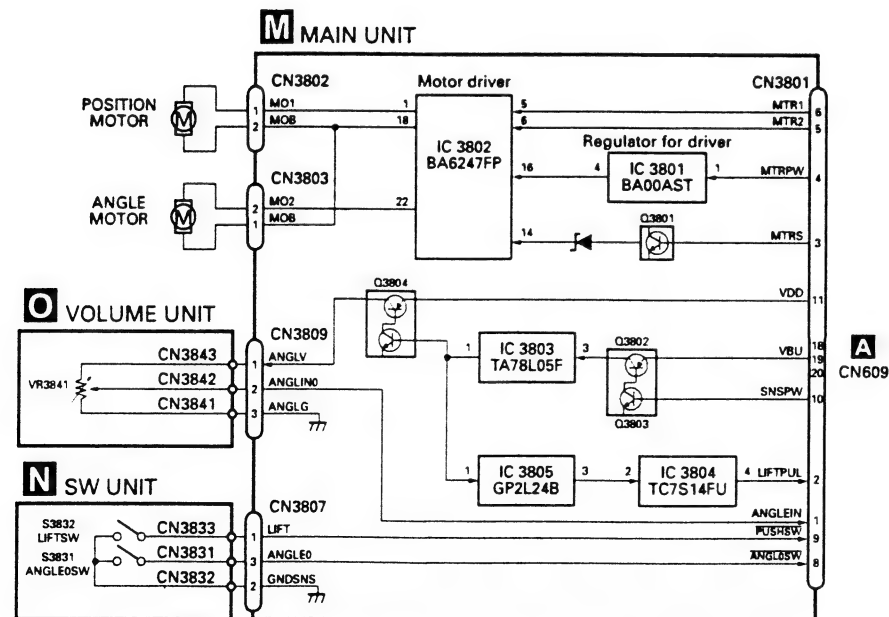
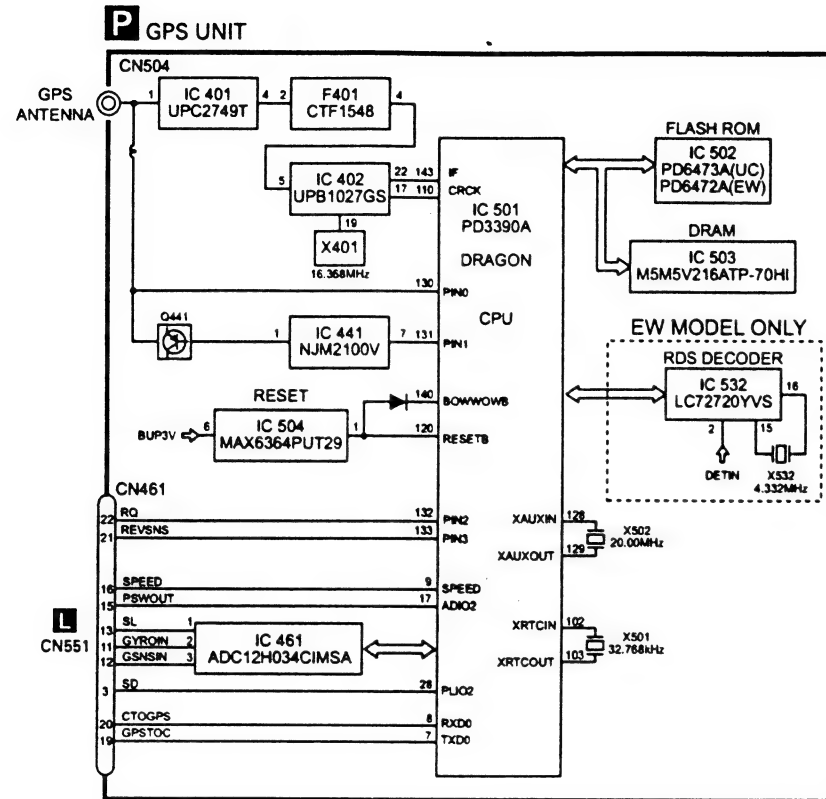


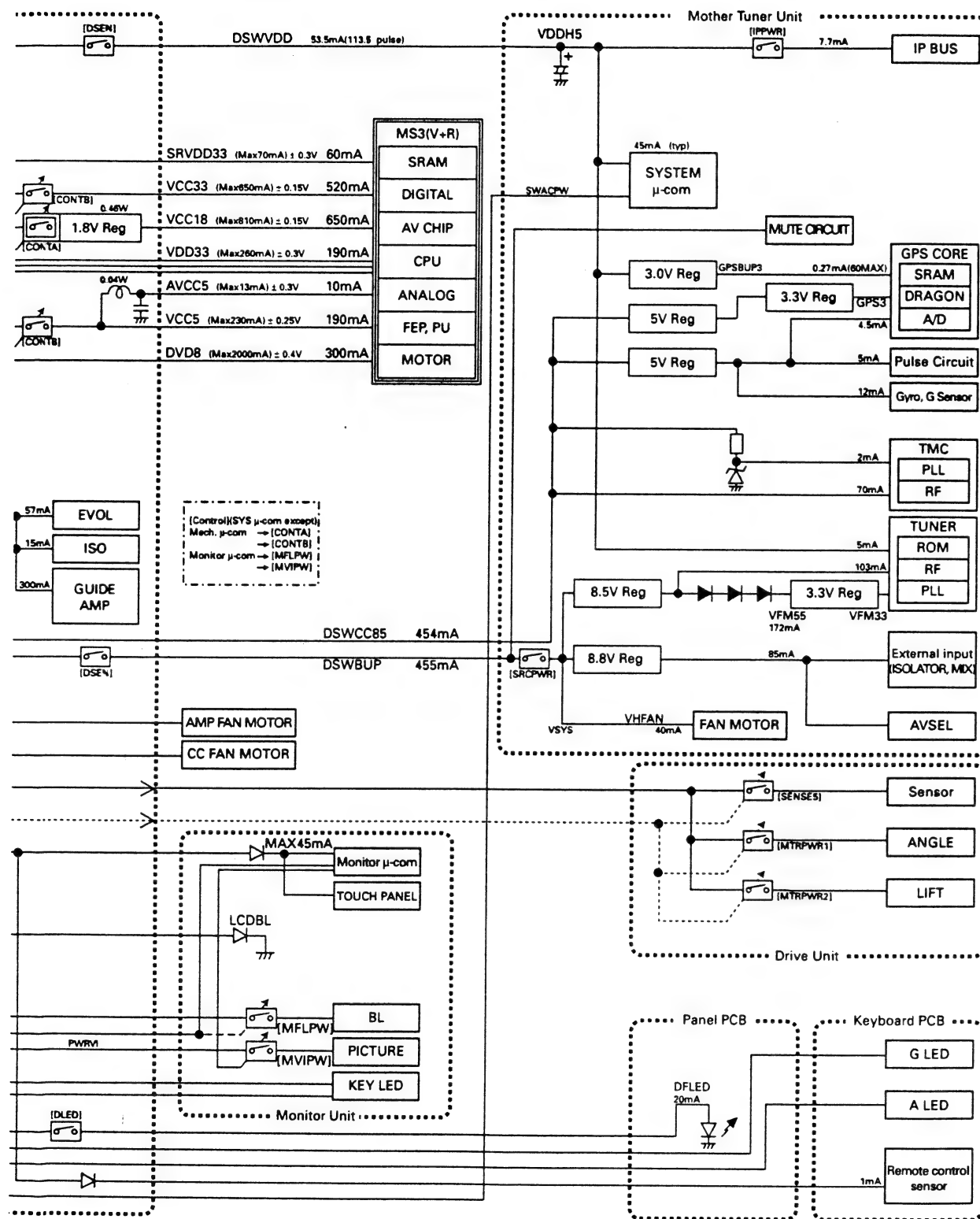
AVIC-N2XU/UC



AVIC-N2XU/UC







A

B

C

D

E

F


3.2 OVERALL CONNECTION DIAGRAM

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

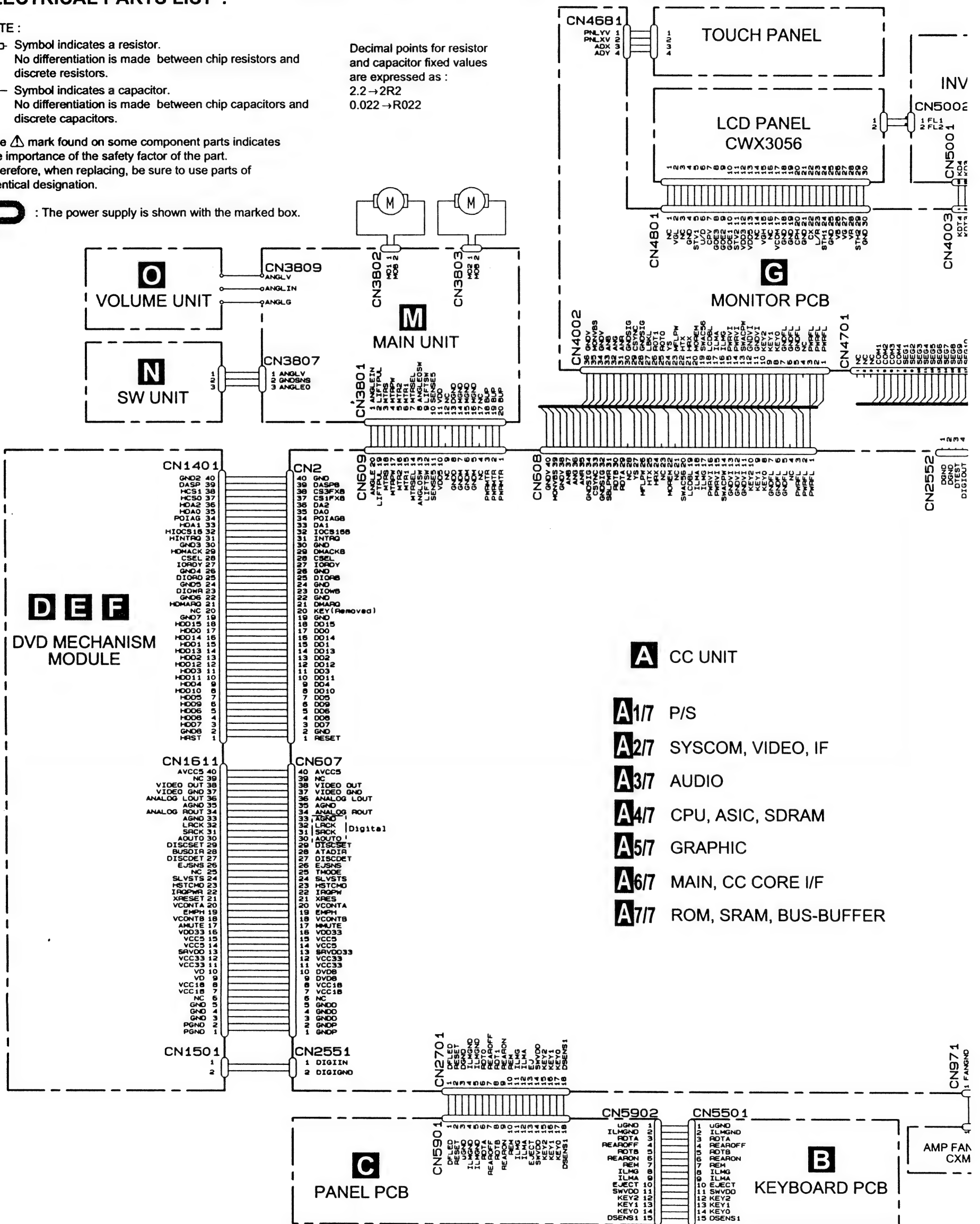
NOTE:

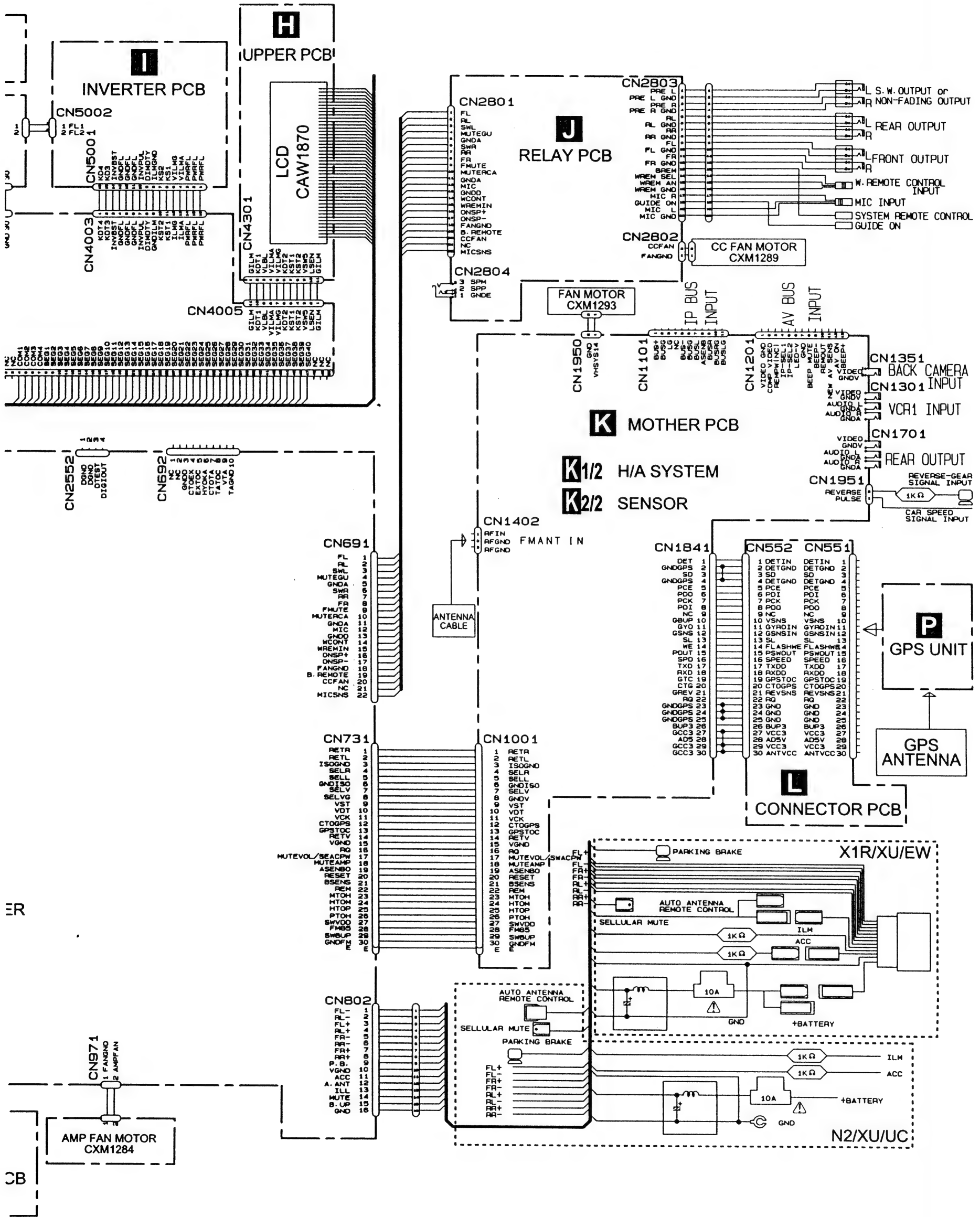
- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- ||— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

 : The power supply is shown with the marked box.

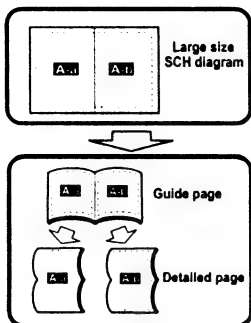
Decimal points for resistor and capacitor fixed values are expressed as :
2.2 → 2R2
0.022 → R022





3.3 CC UNIT (P/S)(GUIDE PAGE)

A



A-a 1/7

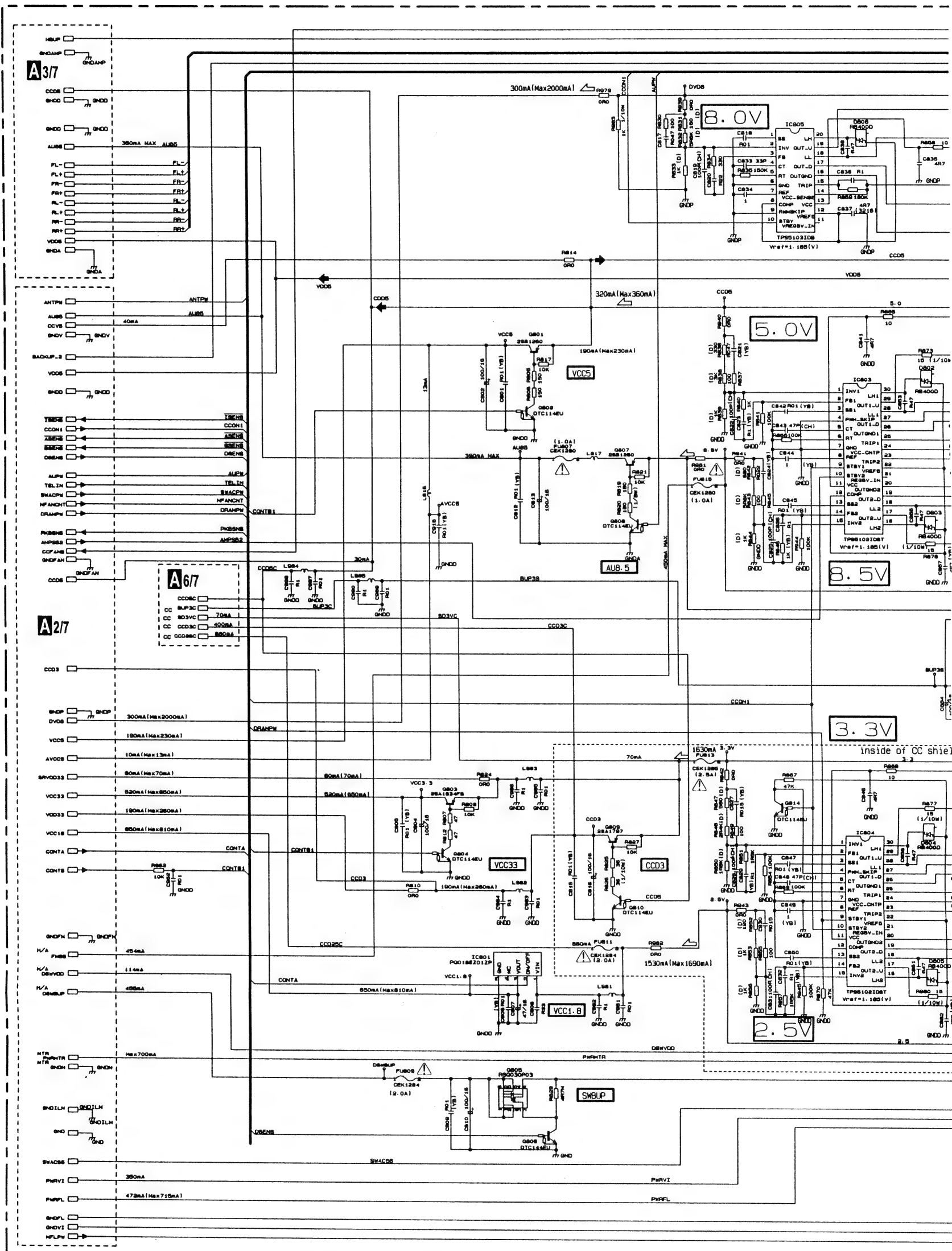
B

C

D

E

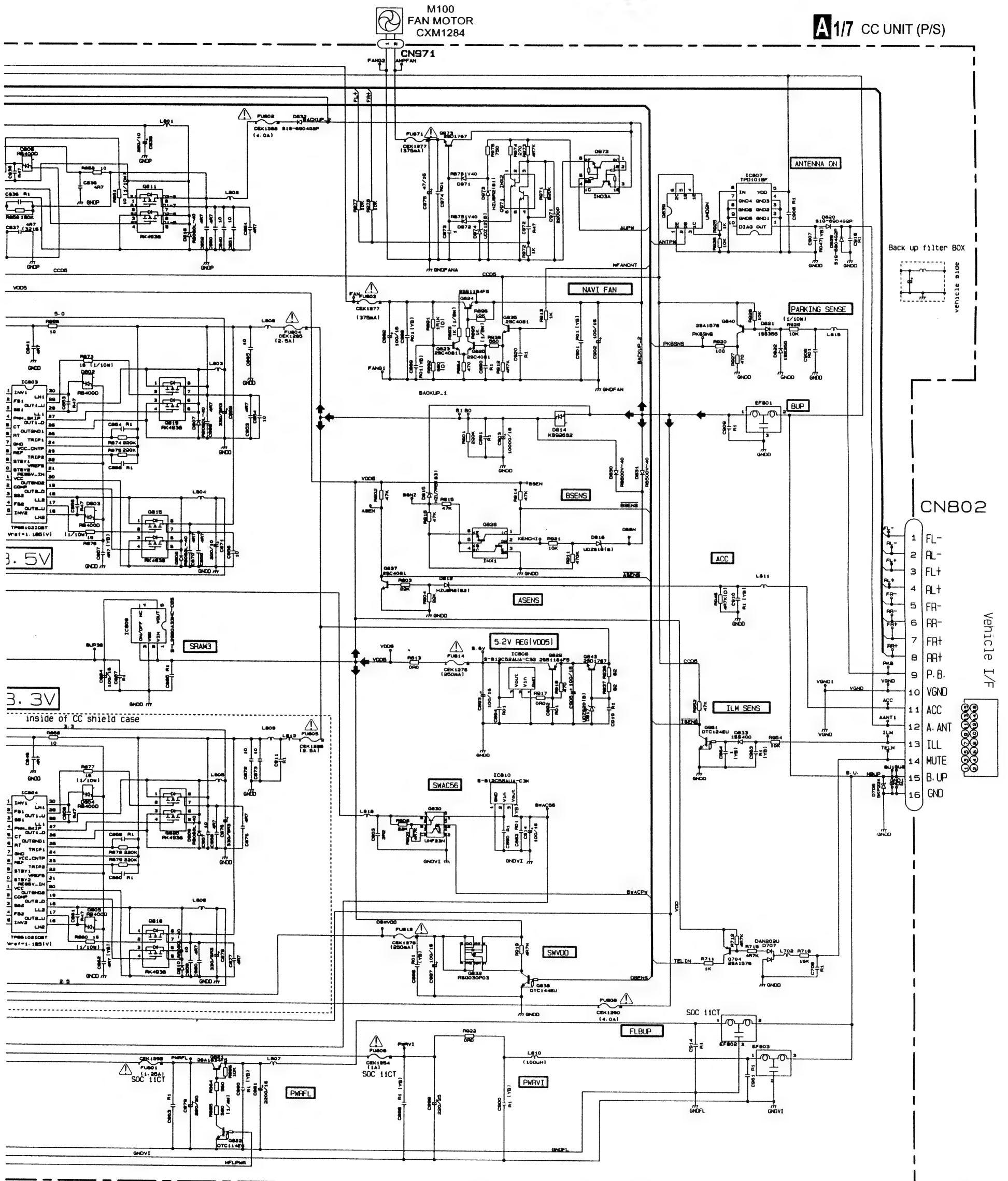
F



A 1/7

A-b 1/7

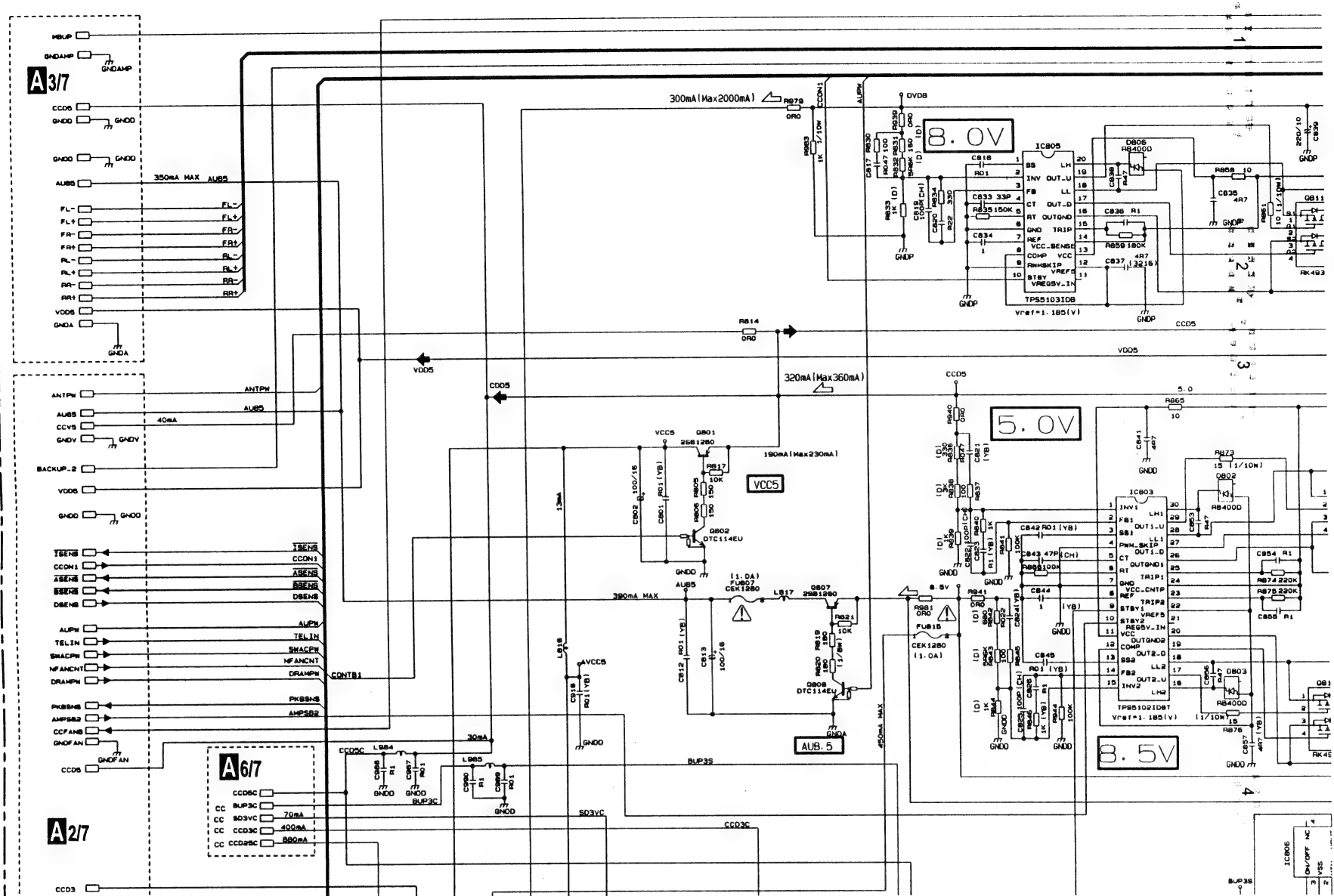
A1/7 CC UNIT (P/S)



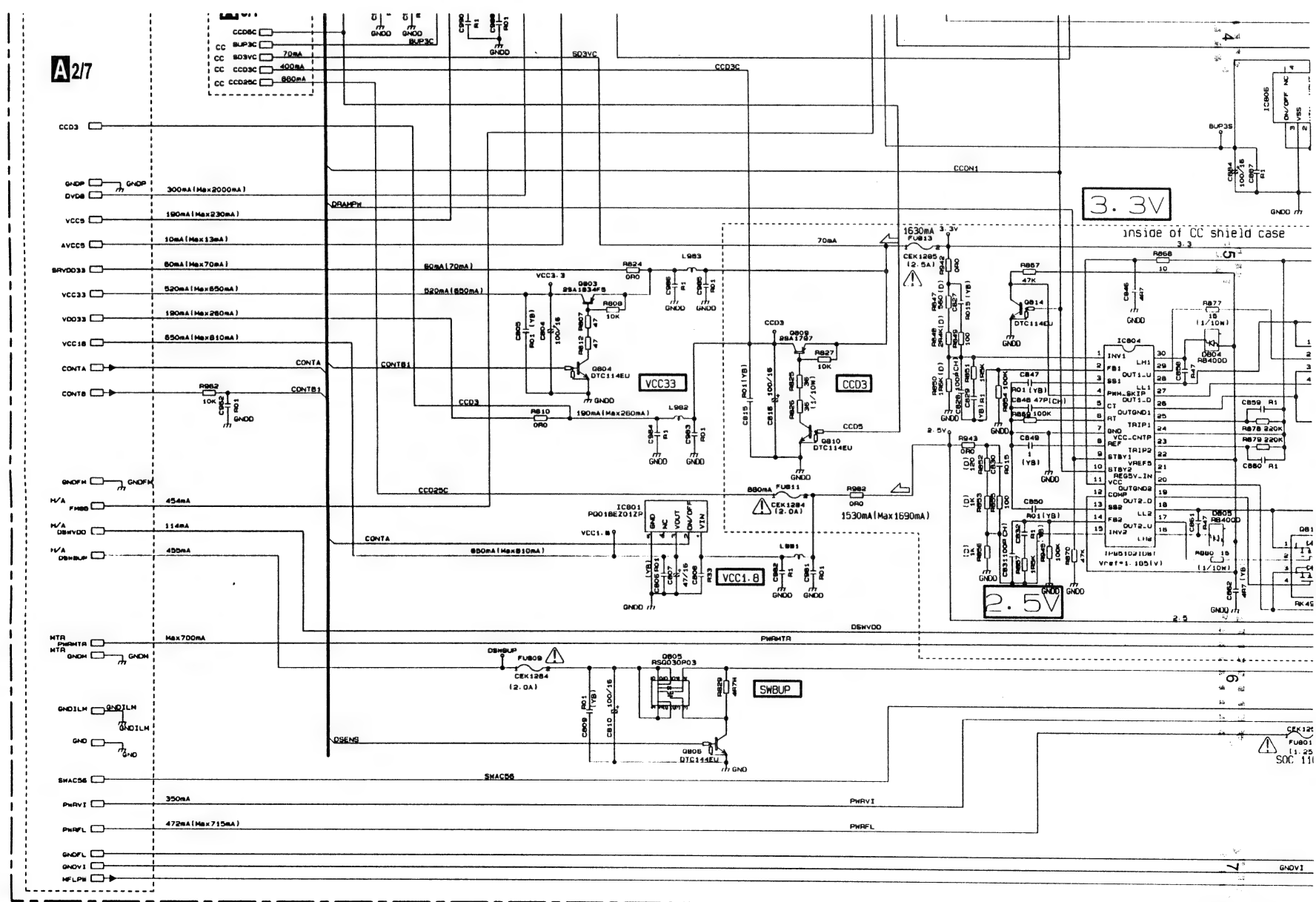
A1/7

AVIC-N2-XU/UG

A-b 1/7



A-a 1/7



A-b 1/7

A-a 1/7

A17 CC UNIT (P/S)

M100
FAN MOTOR
CXM1284

CN971

FAN22

FAN21

FAN20

FAN19

FAN18

FAN17

FAN16

FAN15

FAN14

FAN13

FAN12

FAN11

FAN10

FAN9

FAN8

FAN7

FAN6

FAN5

FAN4

FAN3

FAN2

FAN1

FAN0

FAN-1

FAN-2

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FAN-259

FAN-260

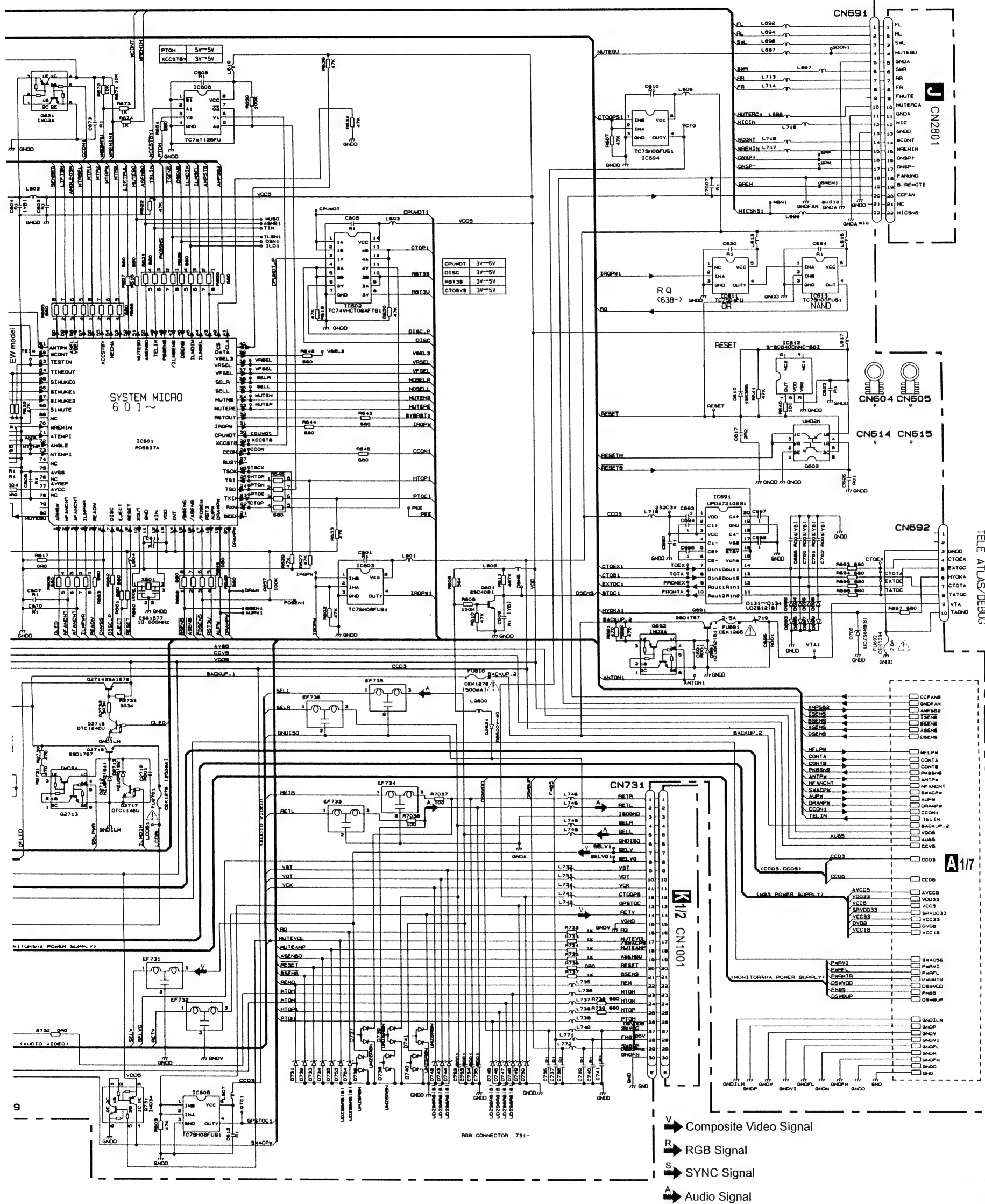
FAN-261

FAN-262

FAN-263

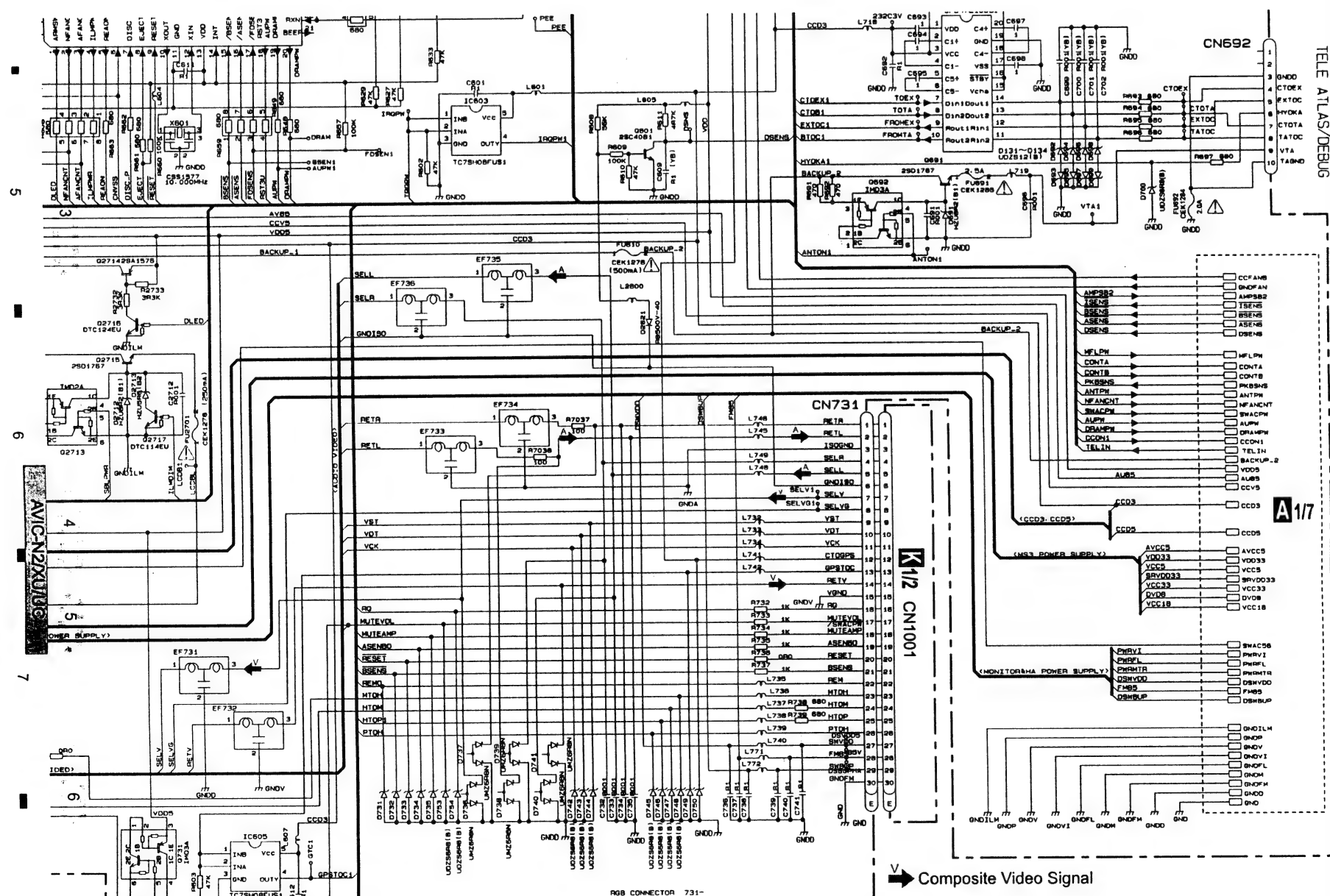
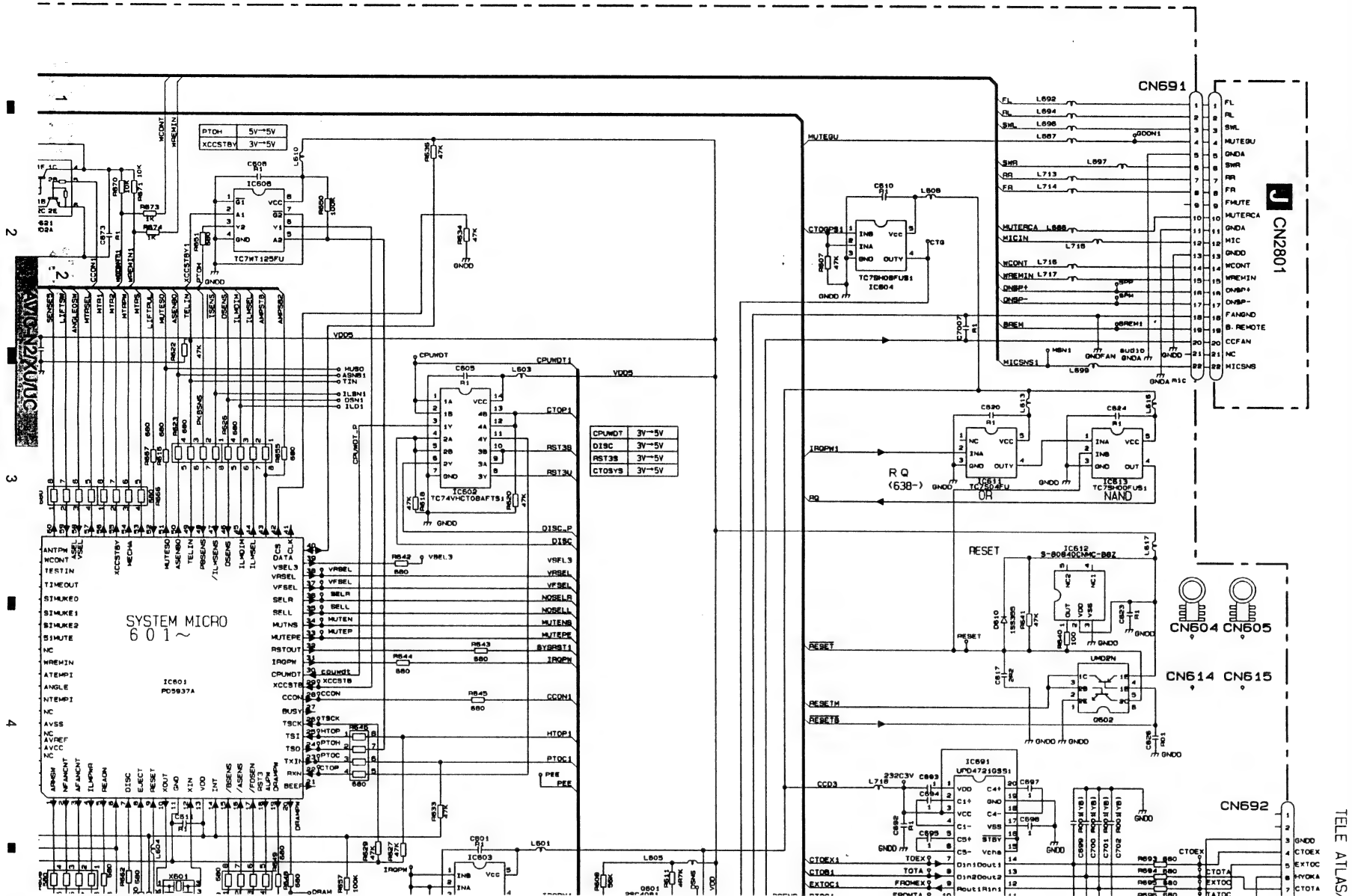
A-b 2/7

A2/7 CC UNIT (SYSCOM, VIDEO, IF)



AVIC-N2/XU/UC

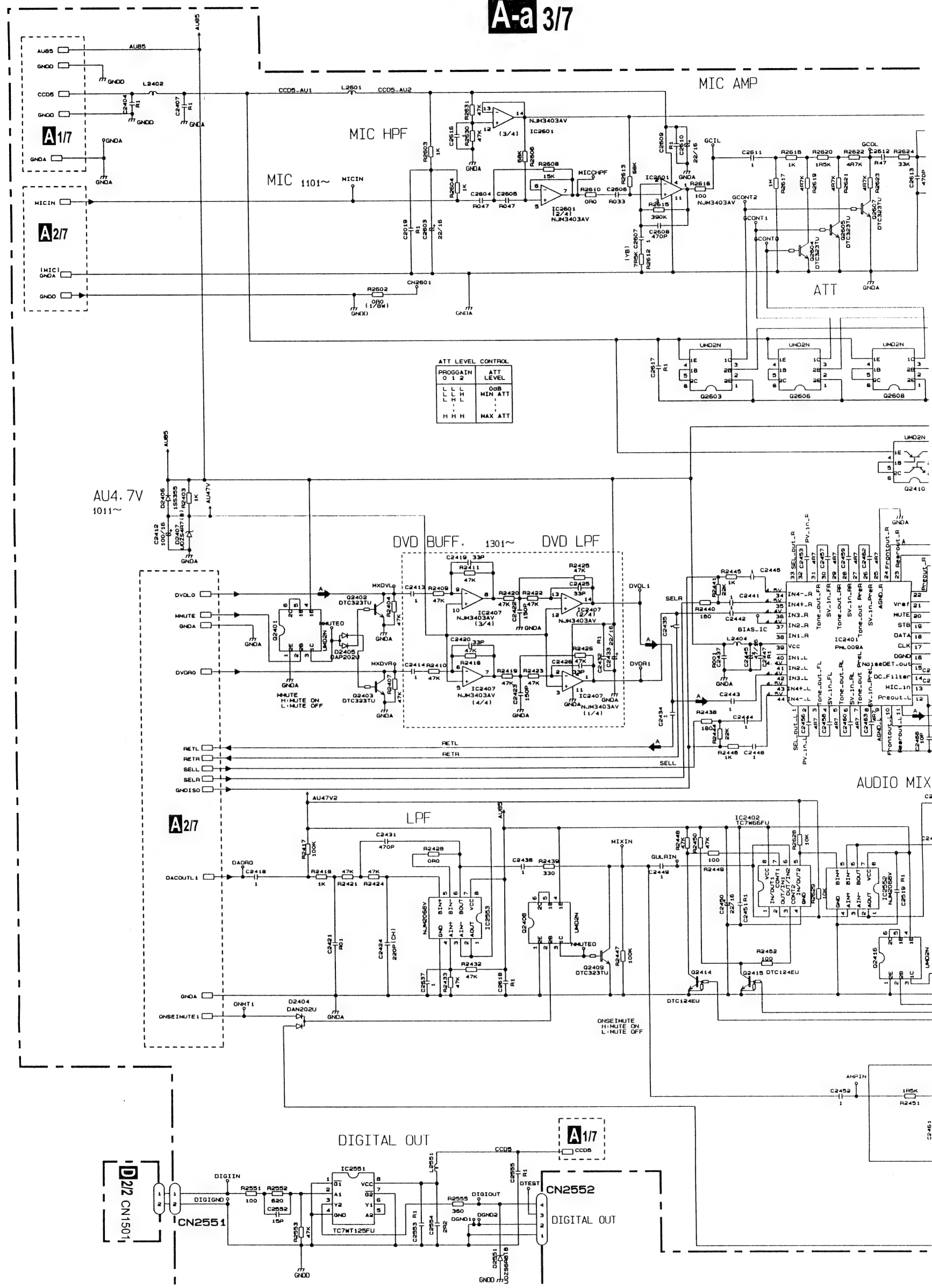
A217 CC UNIT (SYSCOM, VIDEO, IF)



- V Composite Video Signal
- R RGB Signal
- S SYNC Signal
- A Audio Signal

3.5 CC UNIT (AUDIO)(GUIDE PAGE)

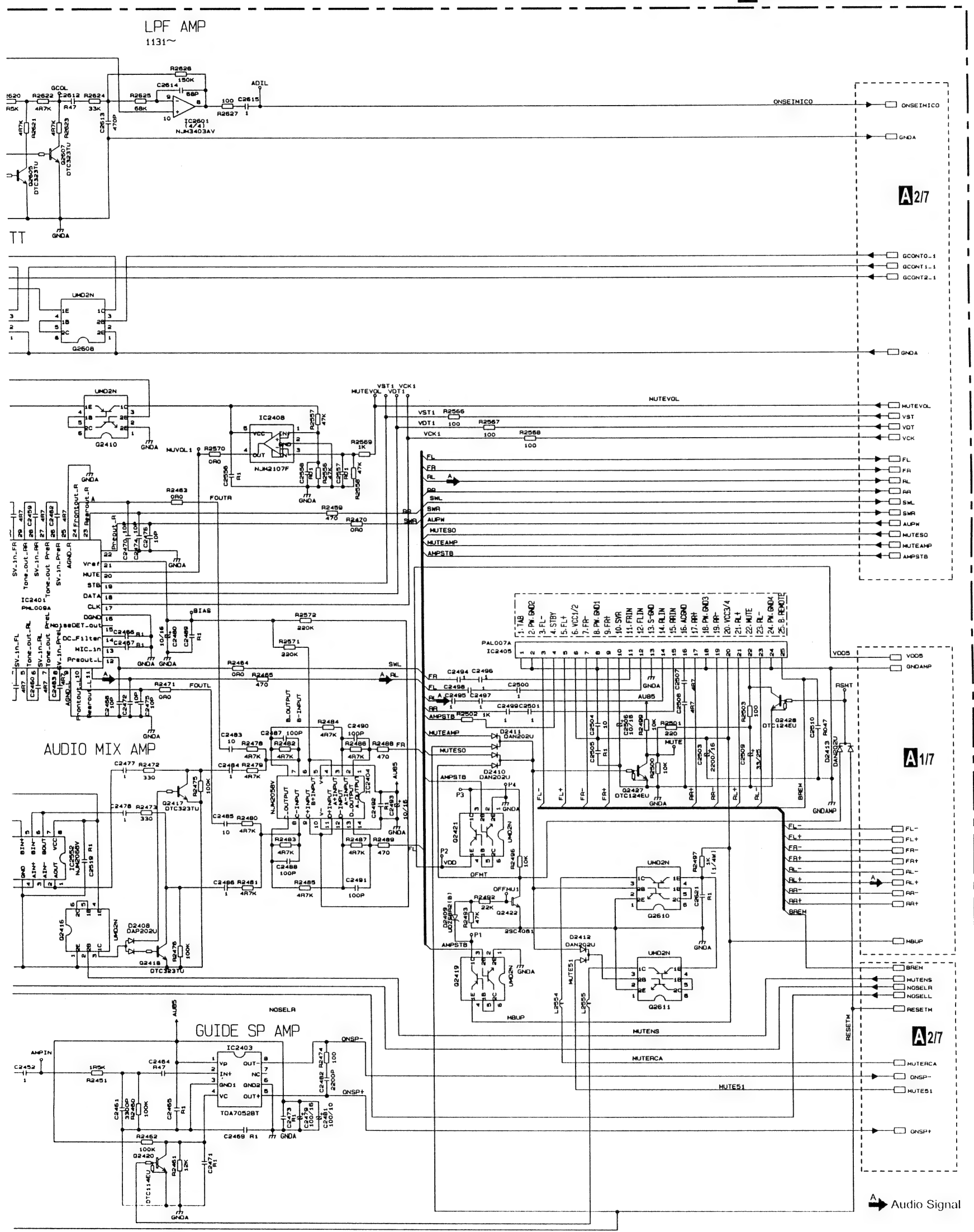
A-a 3/7



A 3/7

A-b 3/7

A3/7 CC UNIT (AUDIO)



A-b 317

MIC AMP

MIC HPF

MIC 1101~

PROGAIN	ATT LEVEL
0 1 2	0dB MIN ATT
L L L	
L L L	
H H H	MAX ATT

AU4. 7V
1011~

DVD BUFF. 1301~ DVD LPF

AUDIO MIX

DIGITAL OUT

A-a 317

A17

A27

A27

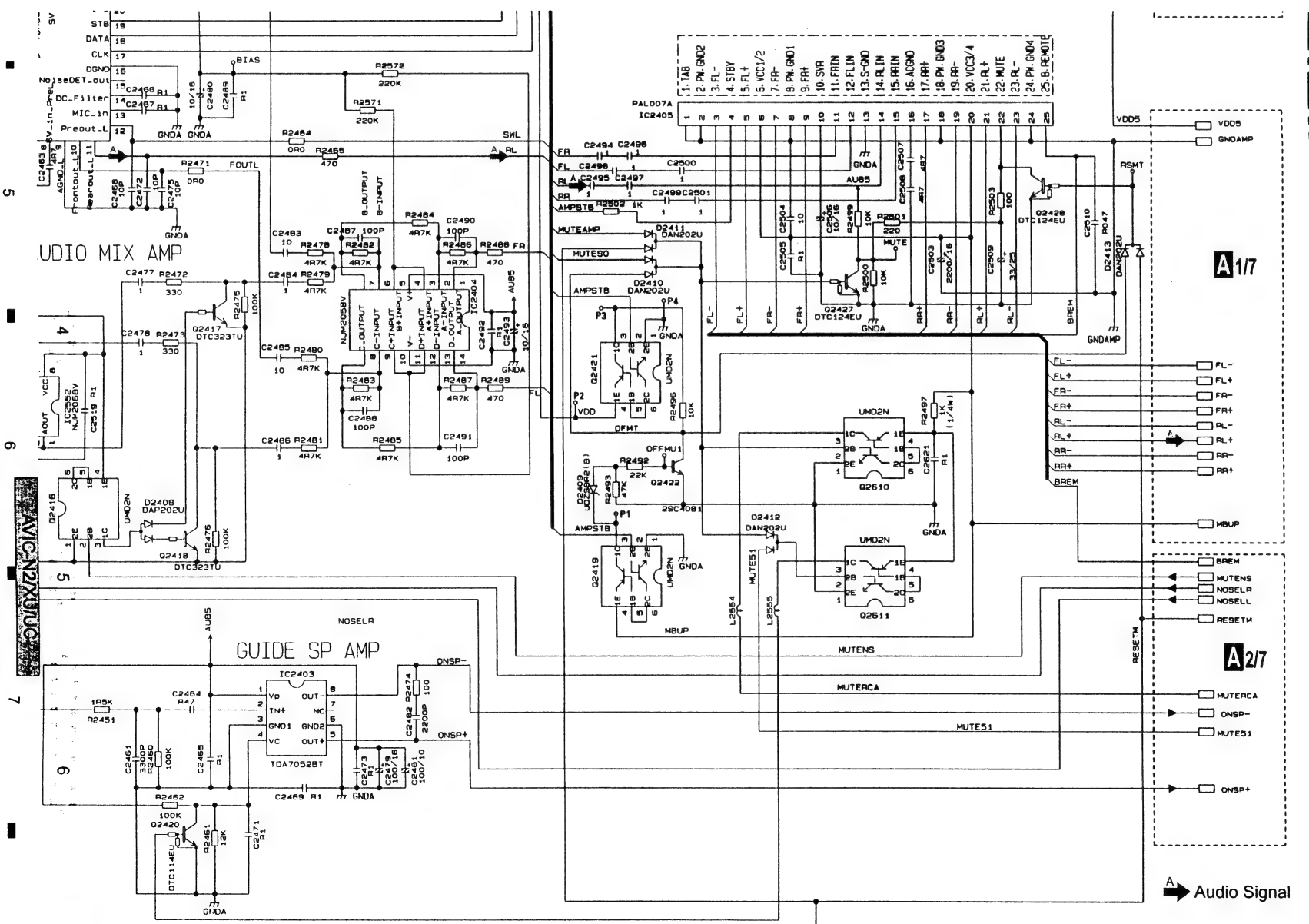
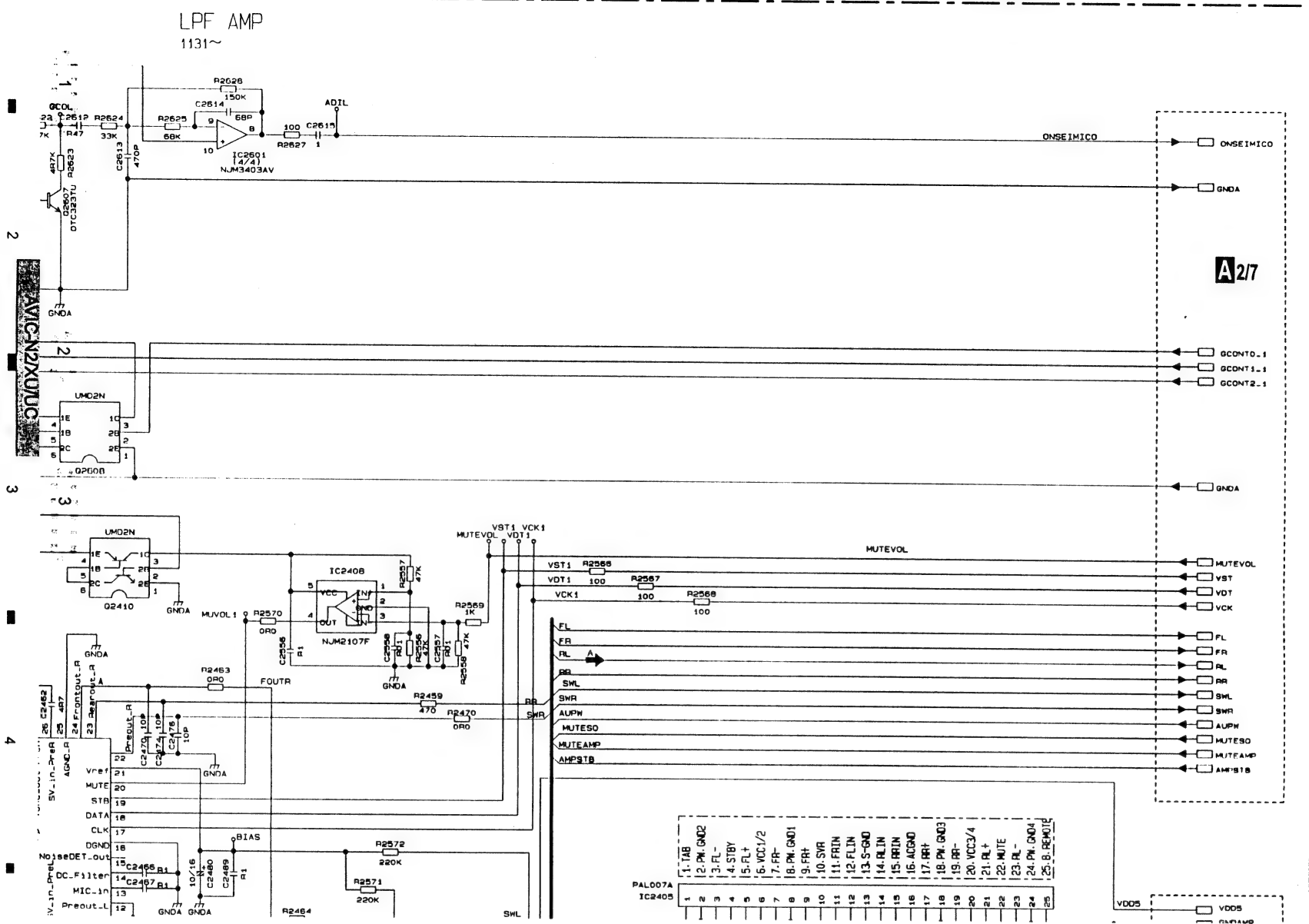
A17

D22 CN1501

CN2552

A-b 317

A-a 317



4

A



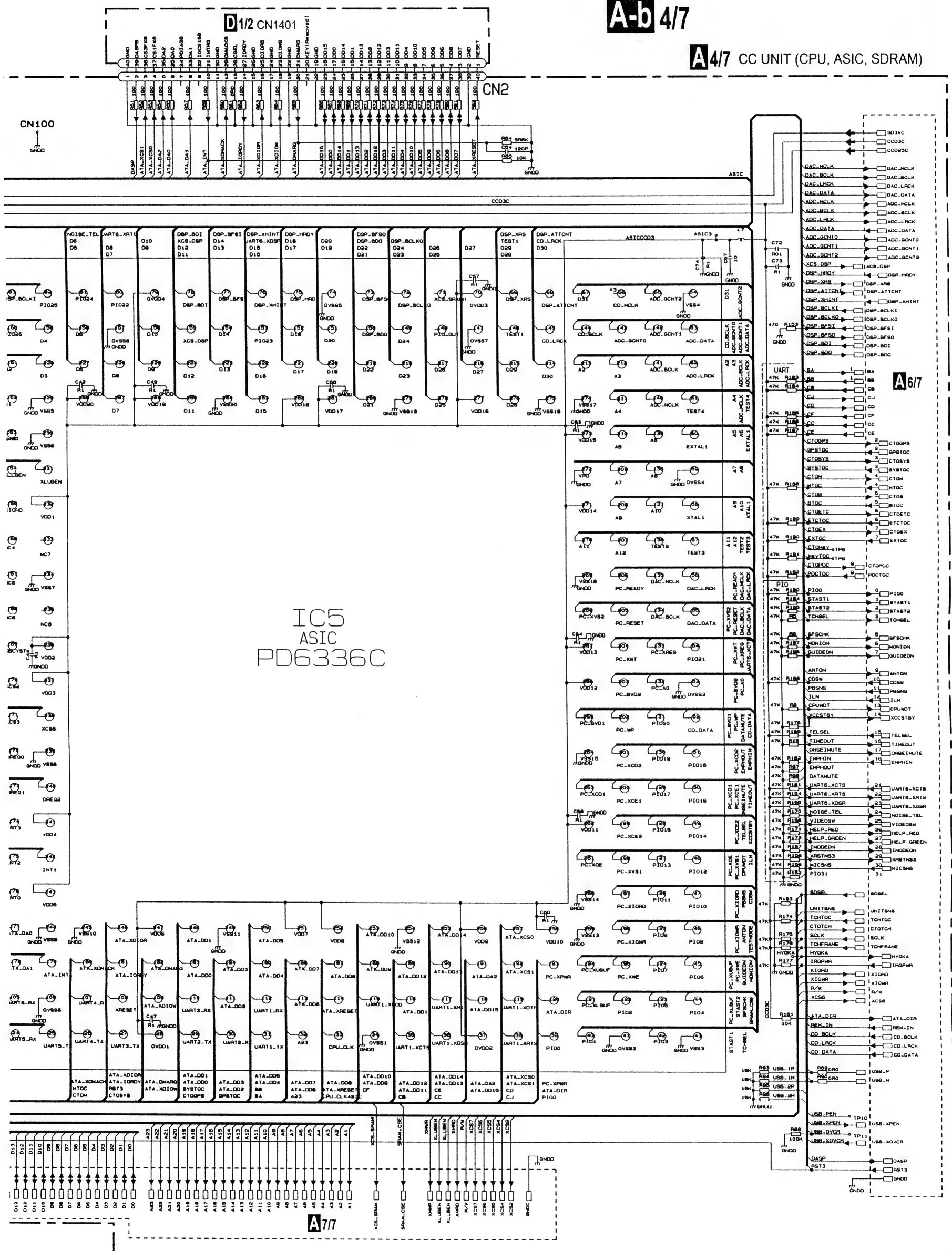
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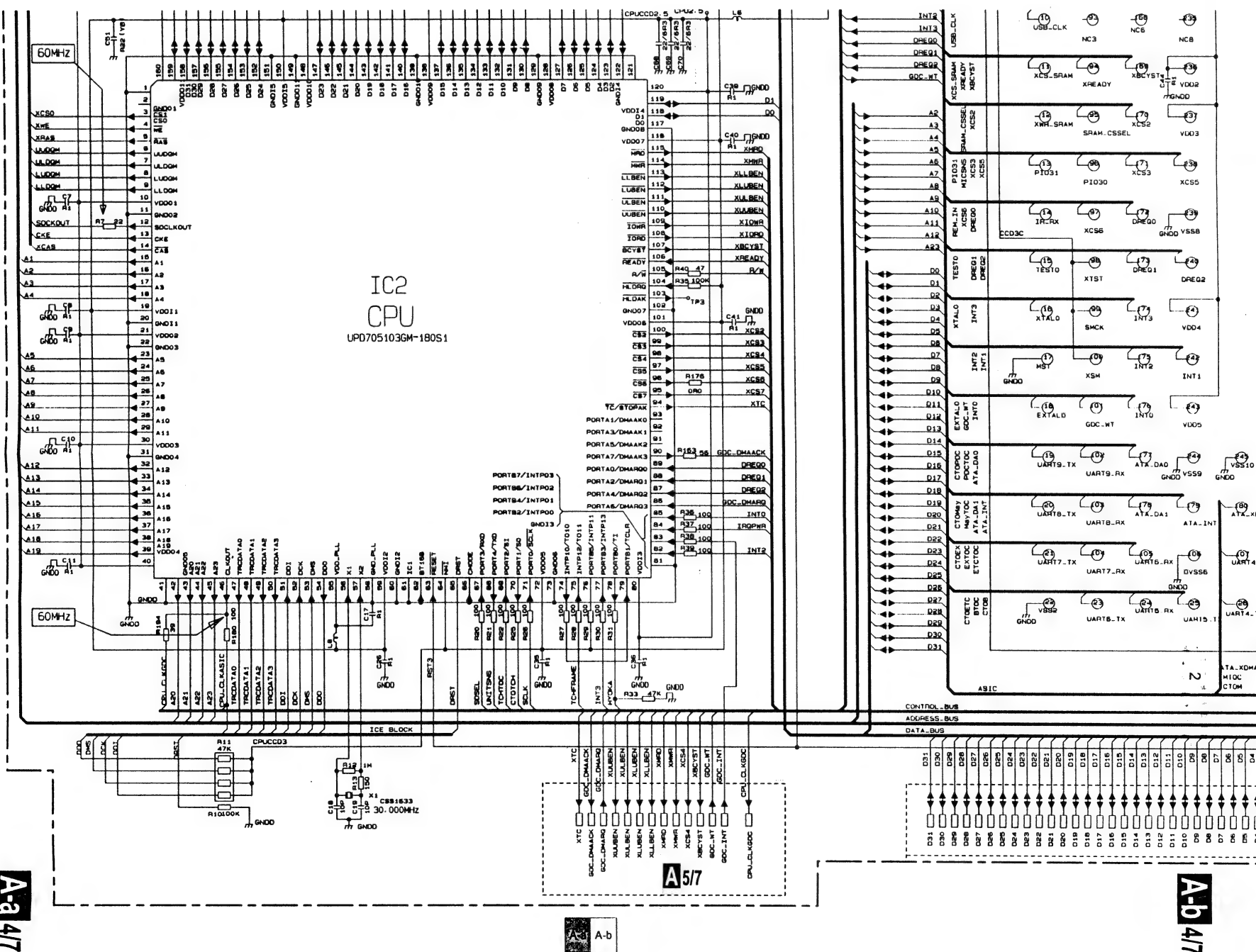
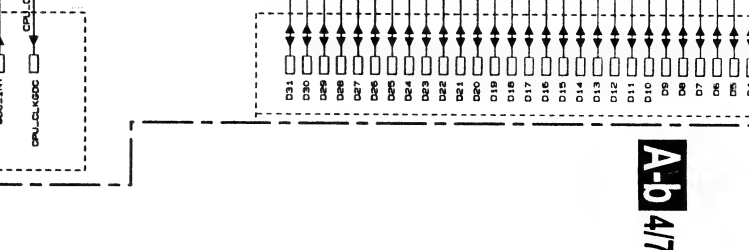
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60

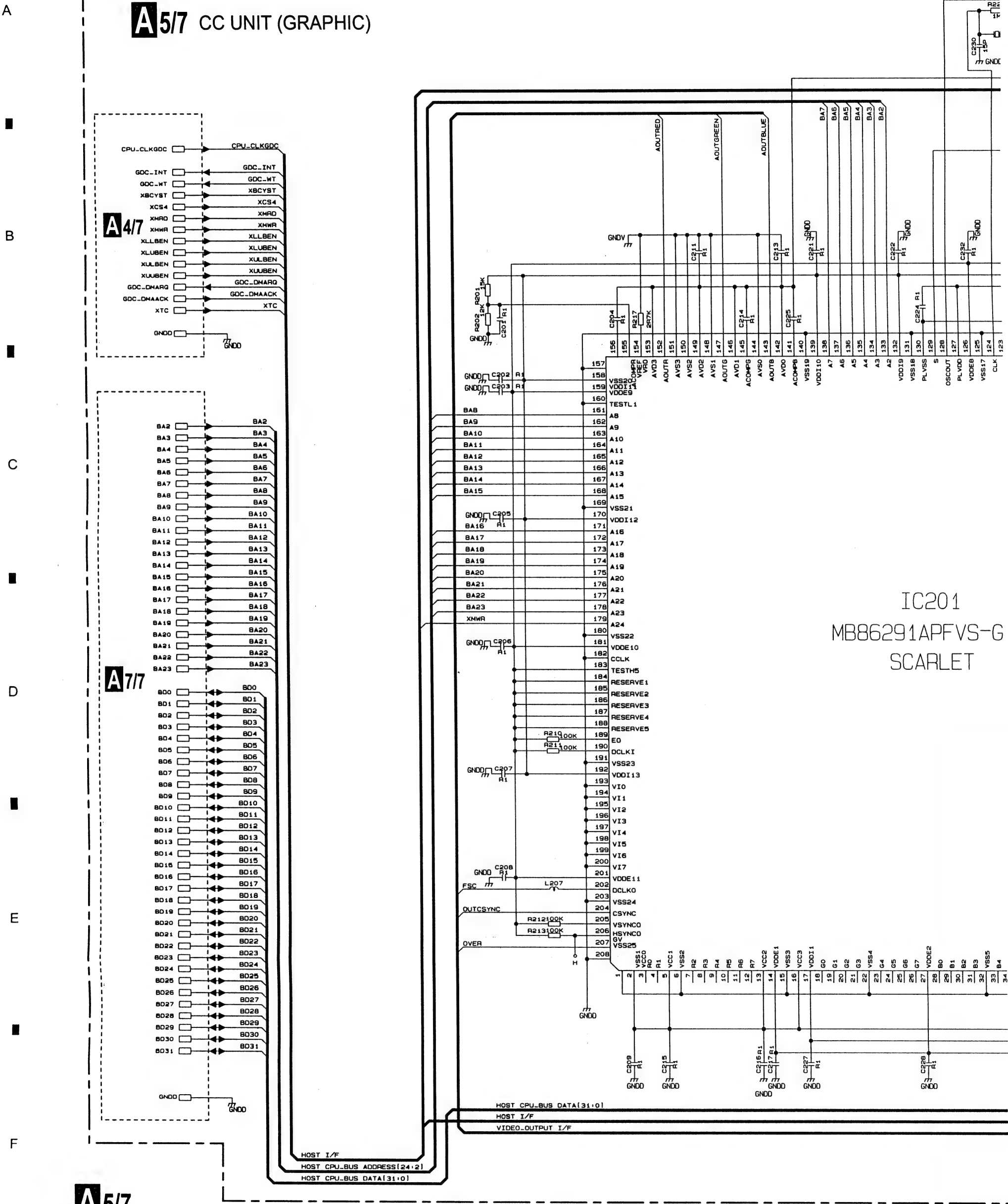
A-b 4/7

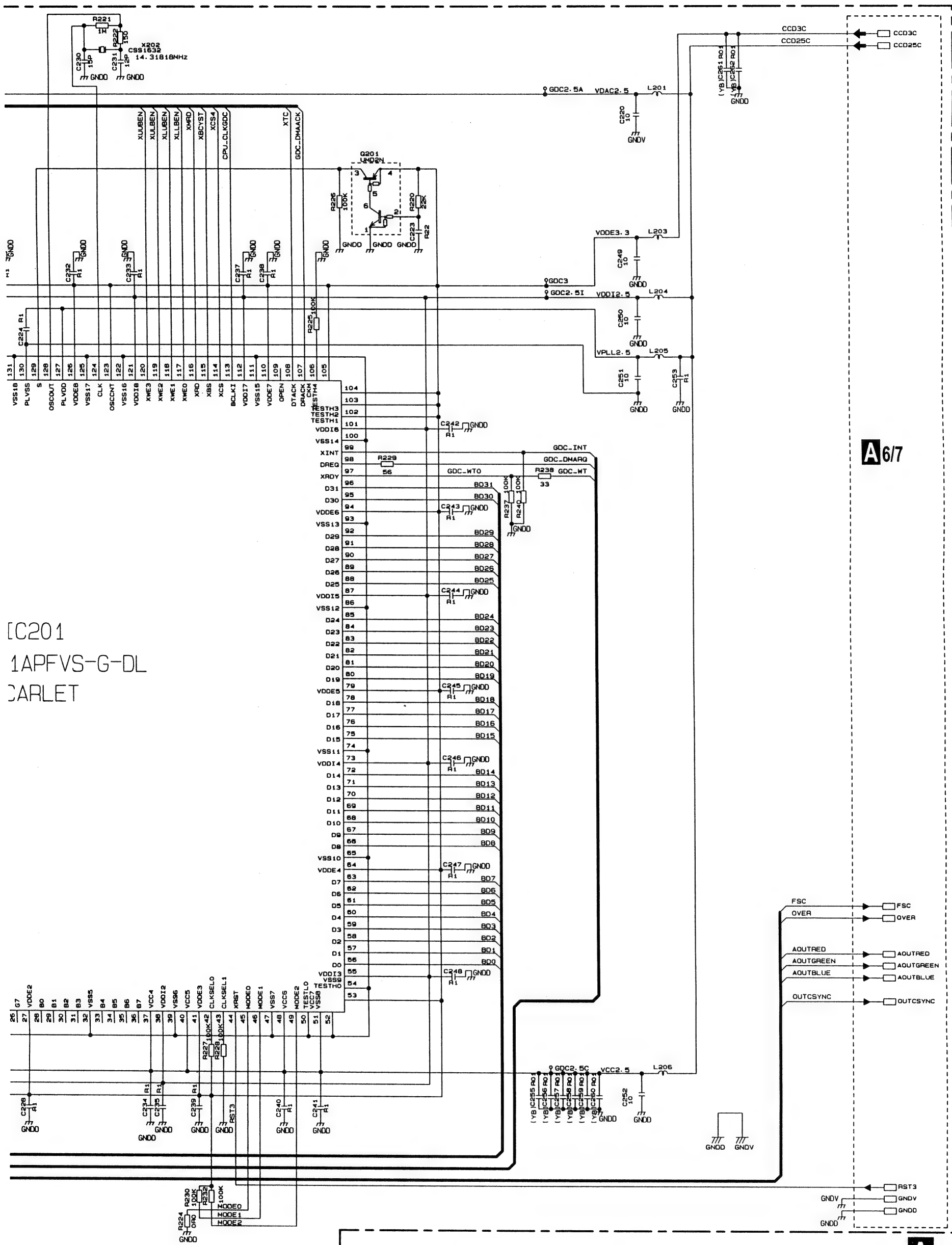
A4/7 CC UNIT (CPU, ASIC, SDRAM)





3.7 CC UNIT (GRAPHIC)





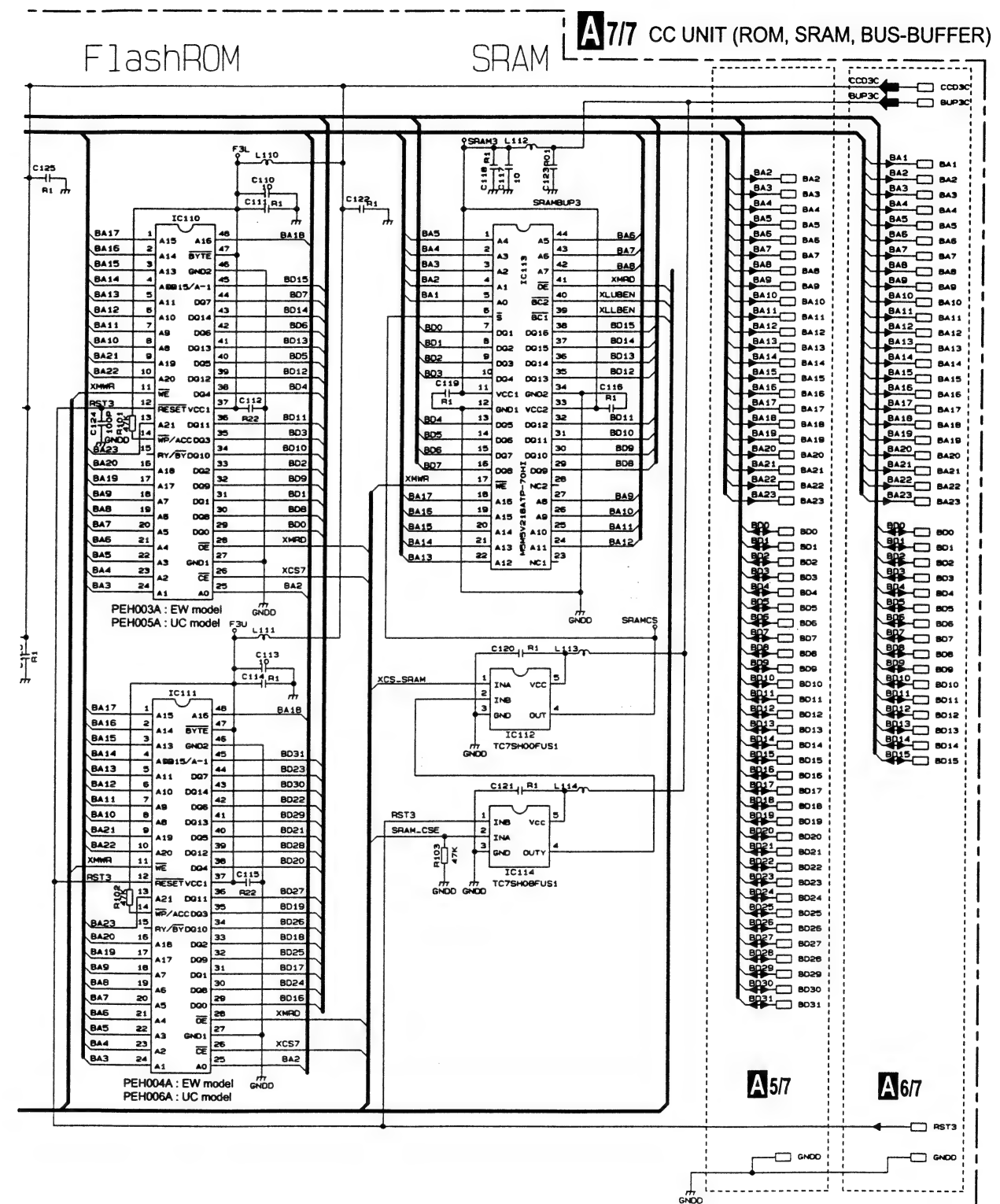
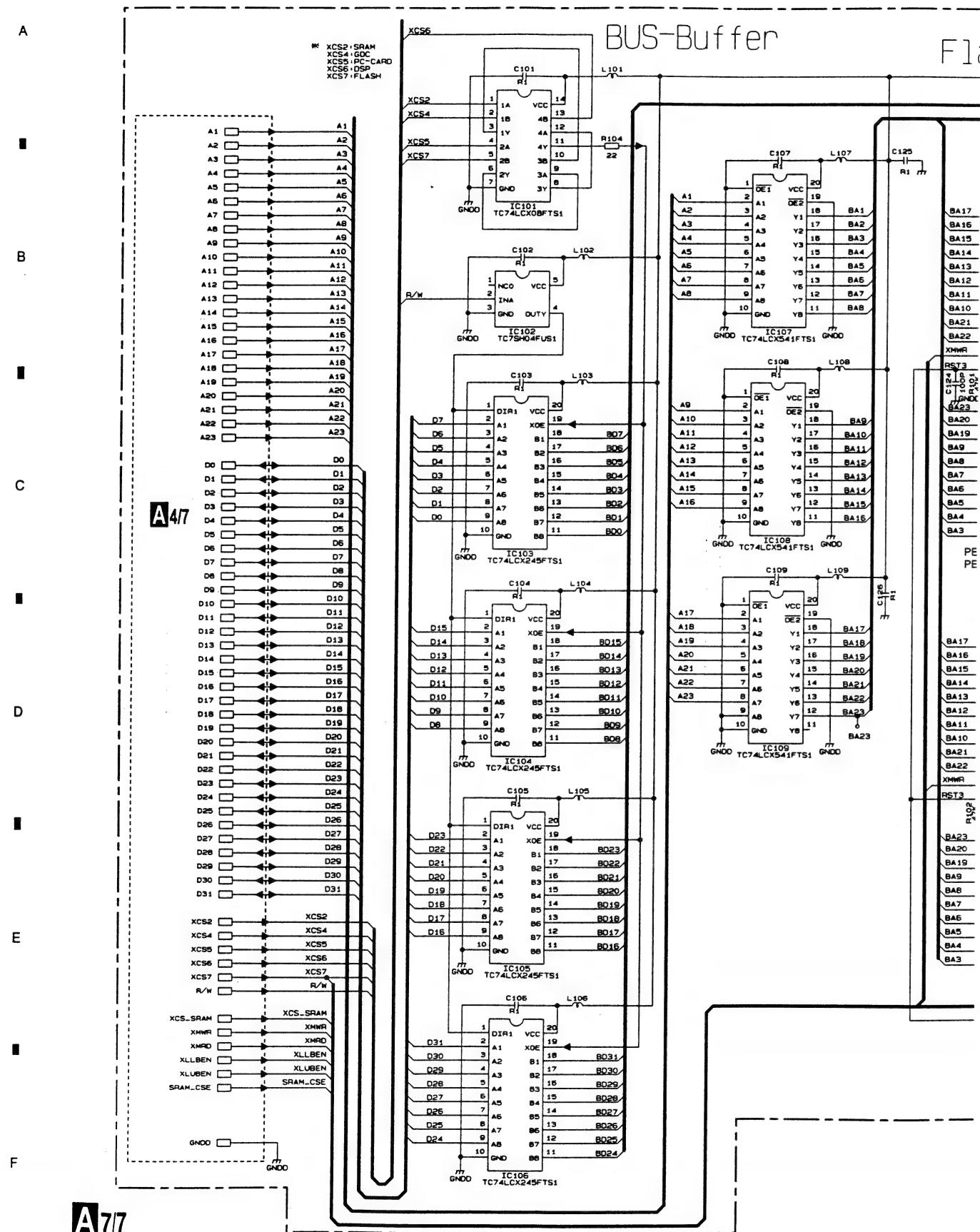
[C201
1APFVS-G-DL
CARLET

A 5/7

3.8 CC UNIT (MAIN, CC CORE I/F)



3.9 CC UNIT (ROM, SRAM, BUS-BUFFER)



3.10 KEYBOARD PCB

A

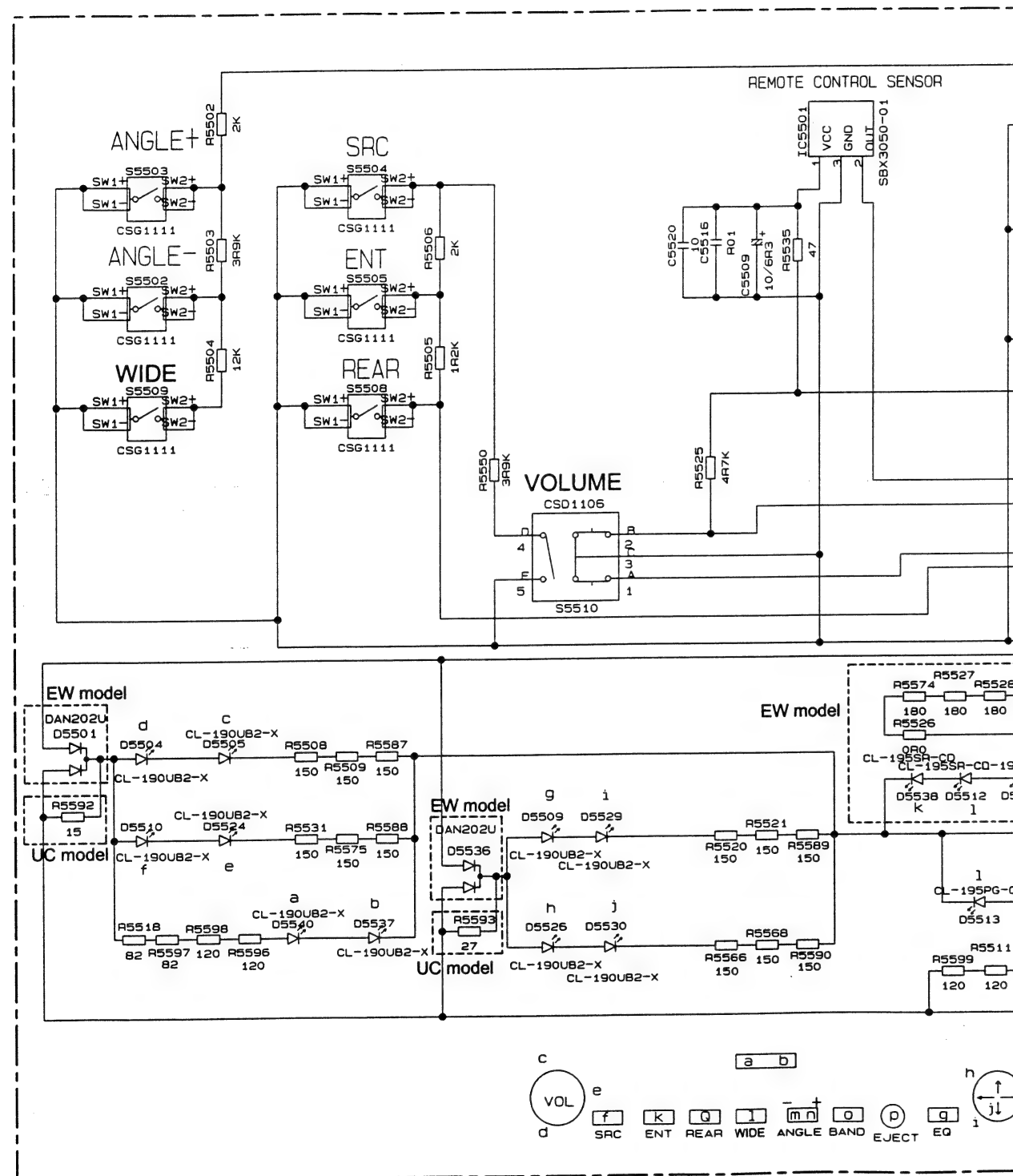
B

C

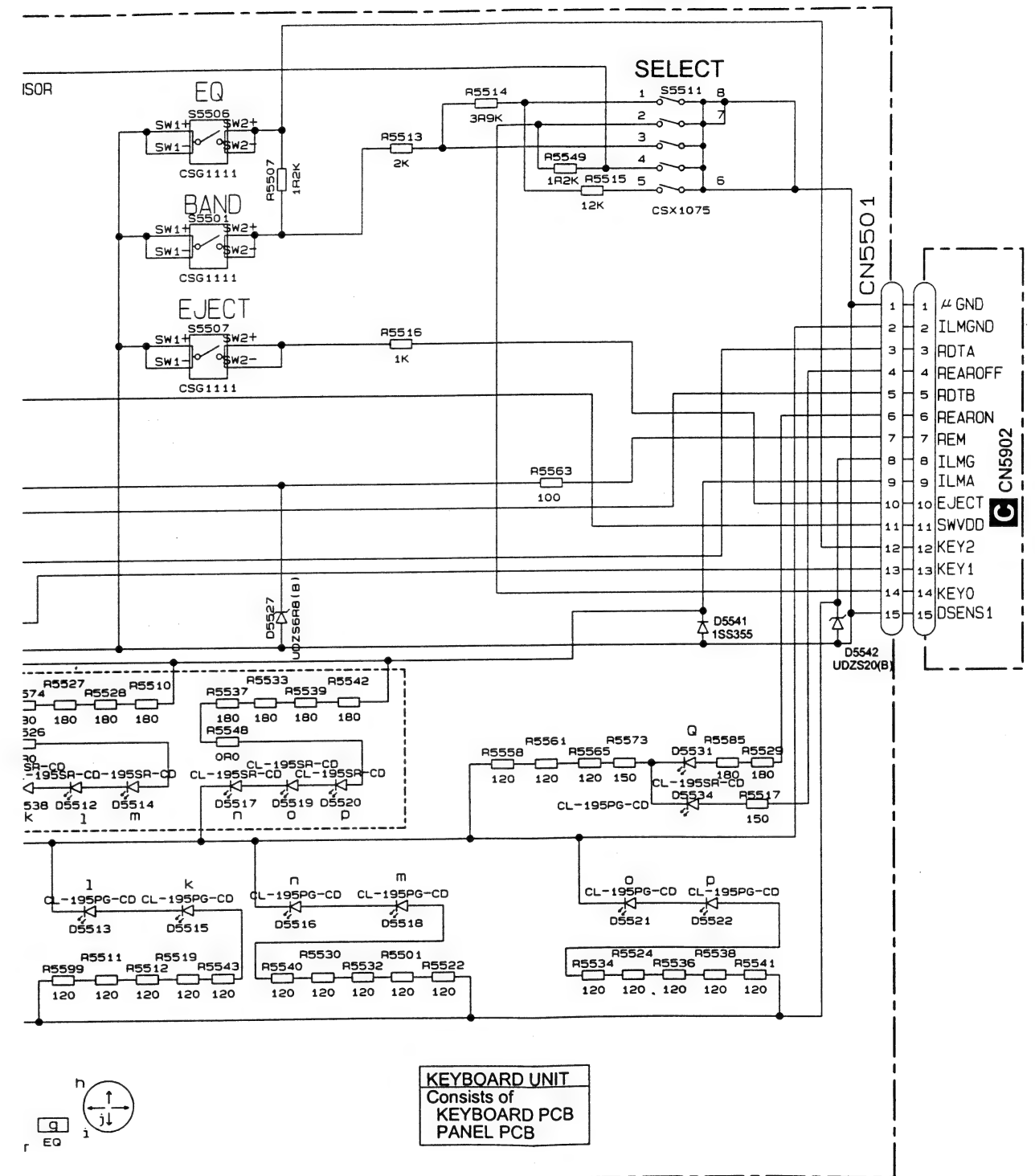
D

E

F

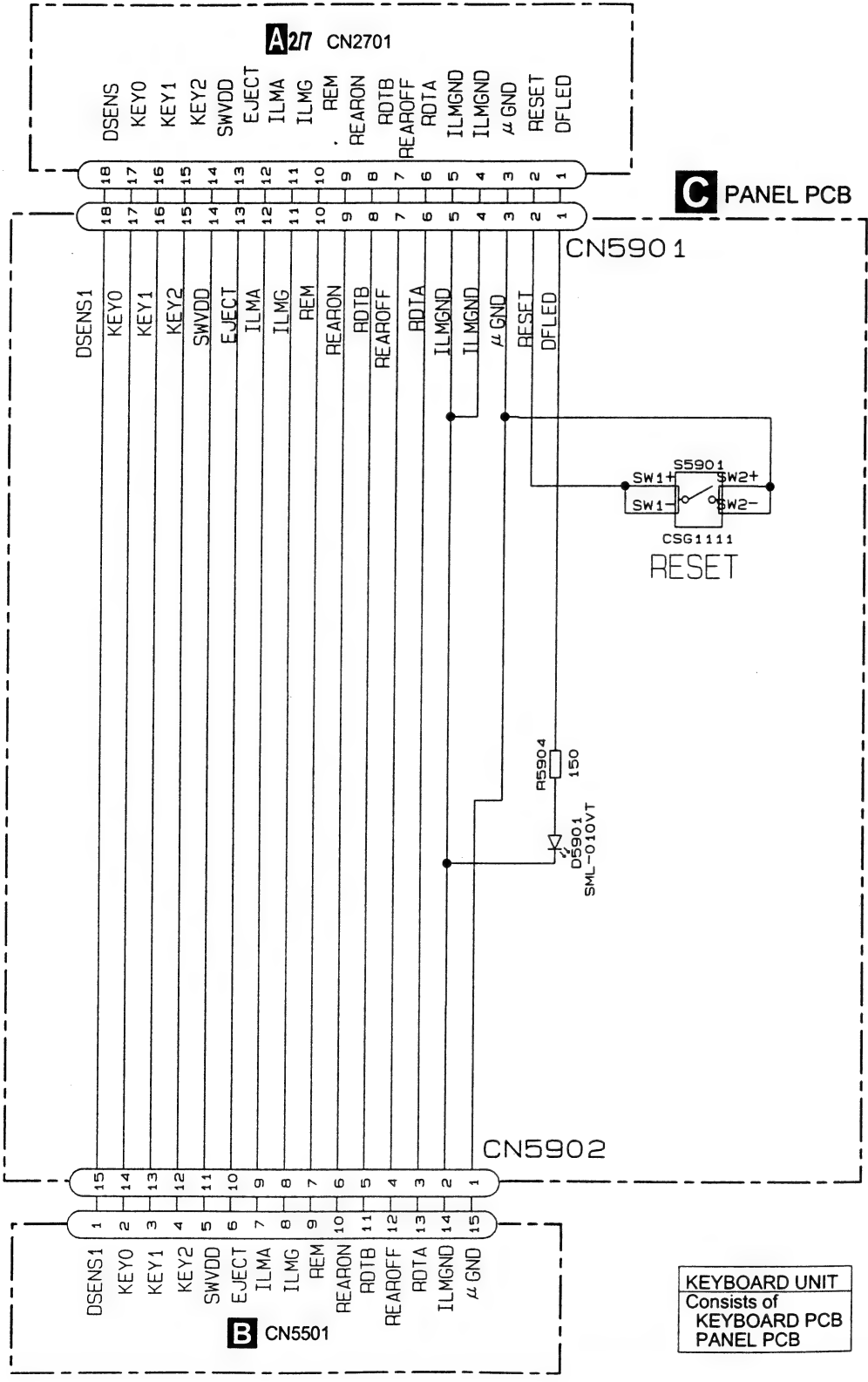


B KEYBOARD PCB



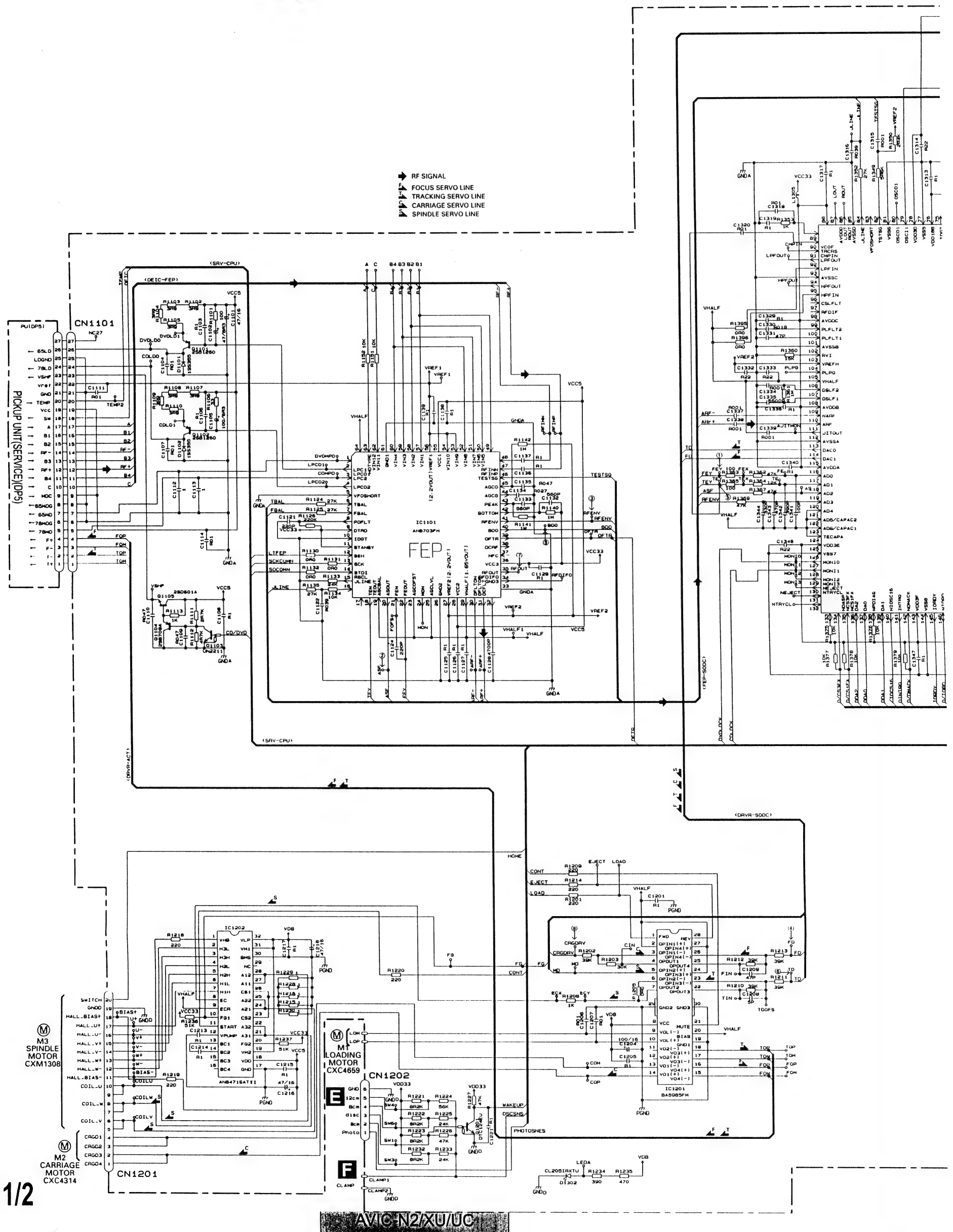
3.11 PANEL PCB

A
B
C
D
E
F



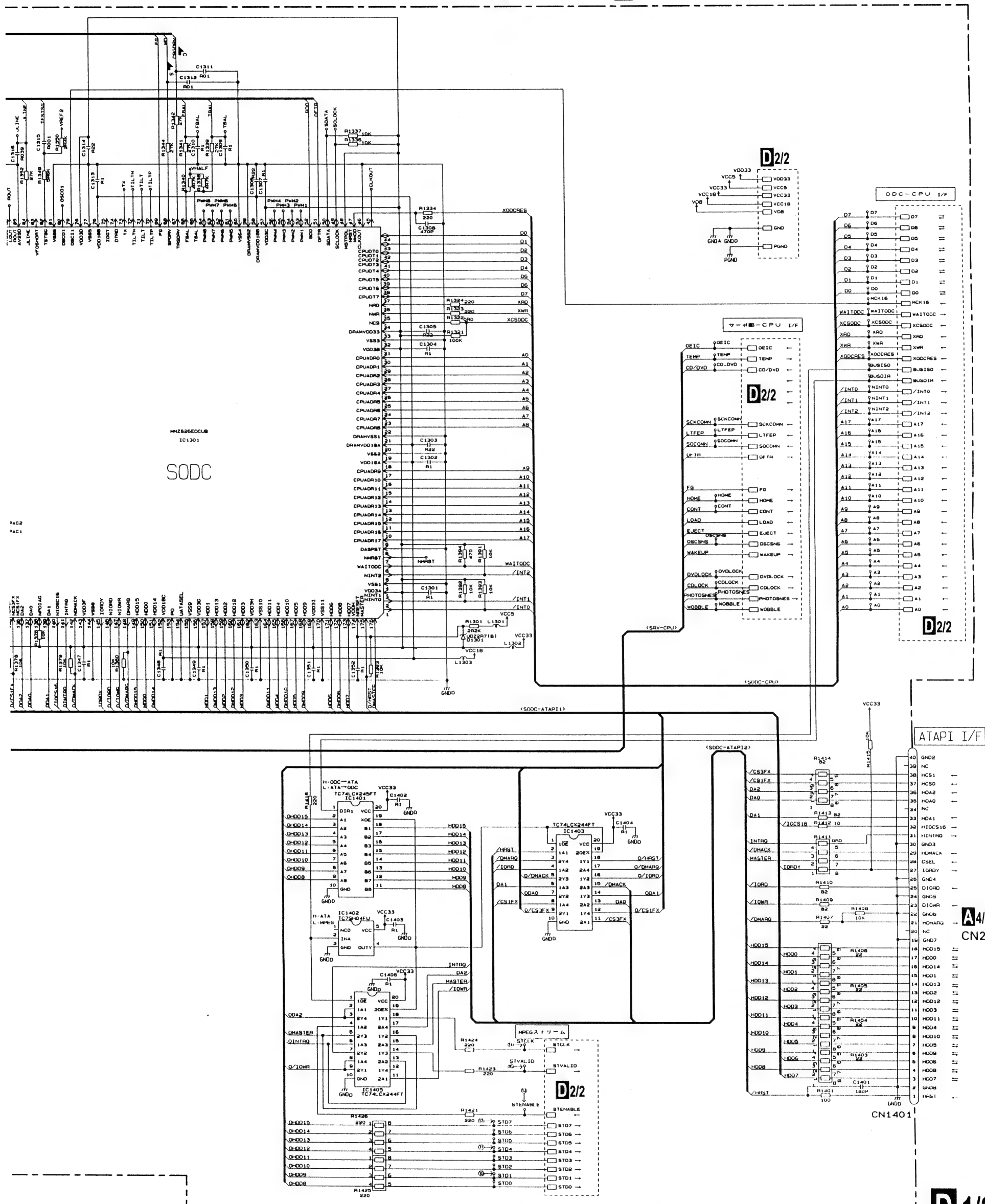
A
B
C
D
E
F

3.12 DVD CORE UNIT(MS3)(SODC)(GUIDE PAGE)

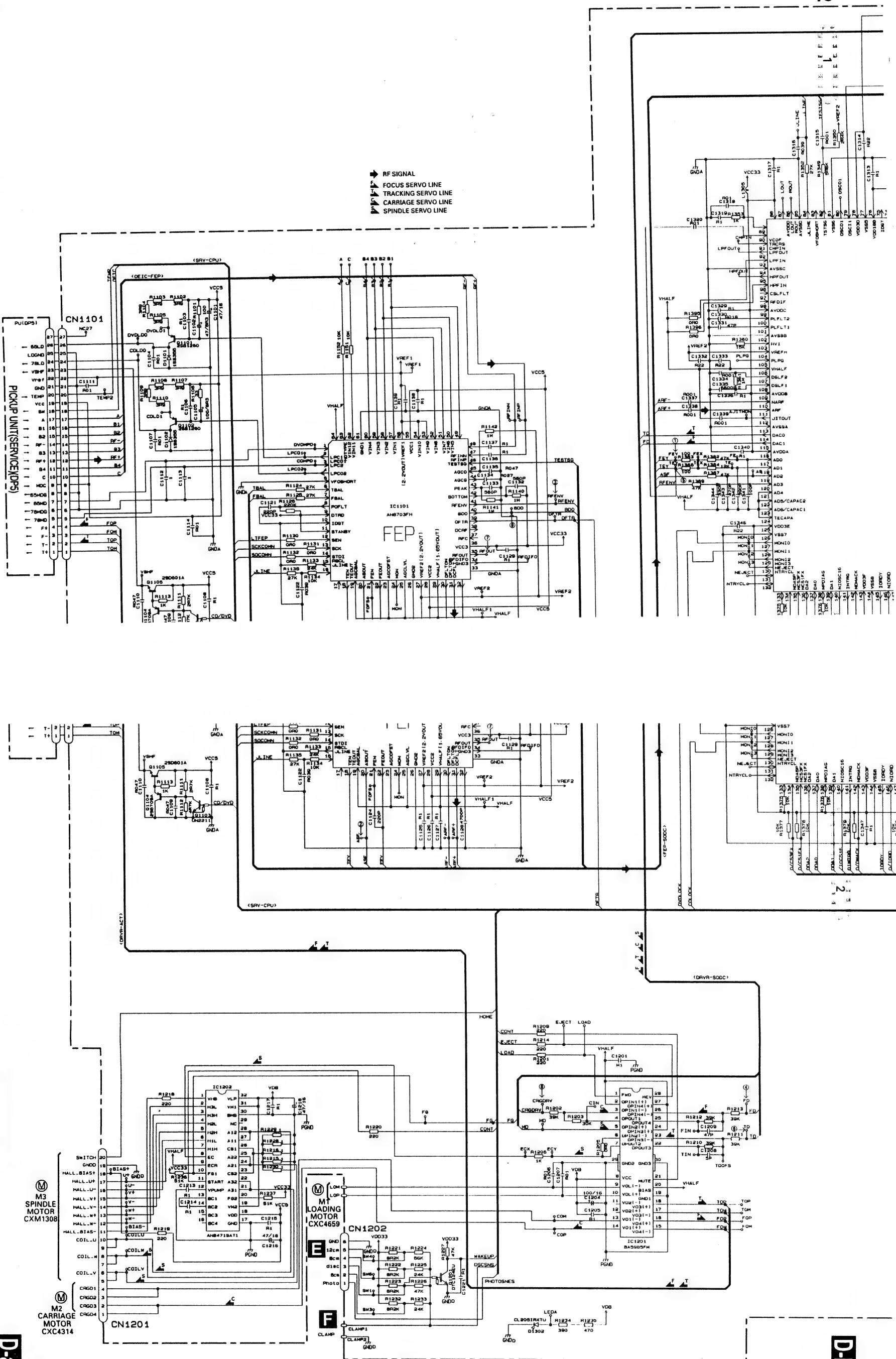
D-a 1/2

D-b 1/2

D1/2 DVD CORE UNIT(MS3)(SODC)



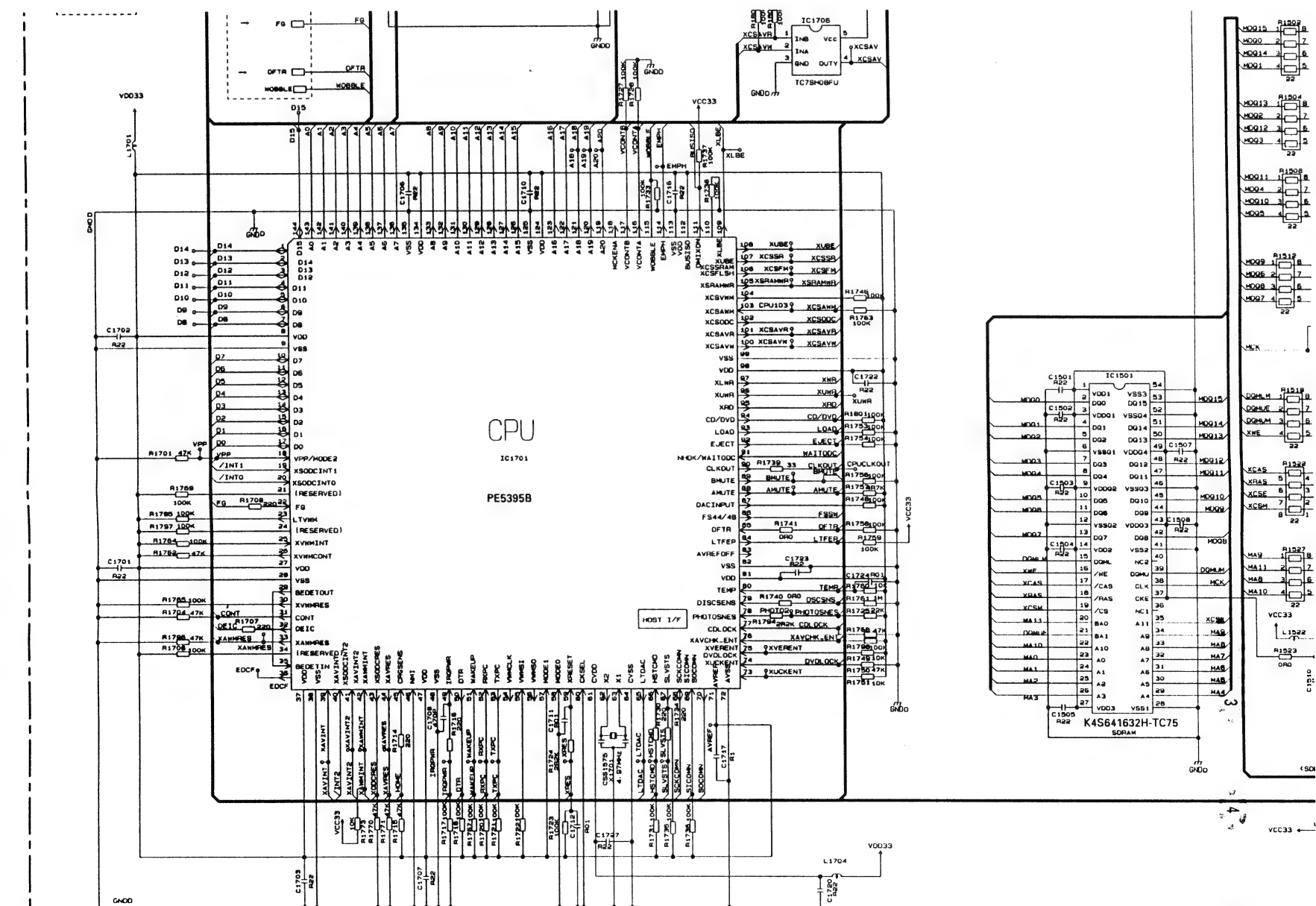
AVIC-N2/XU/UC

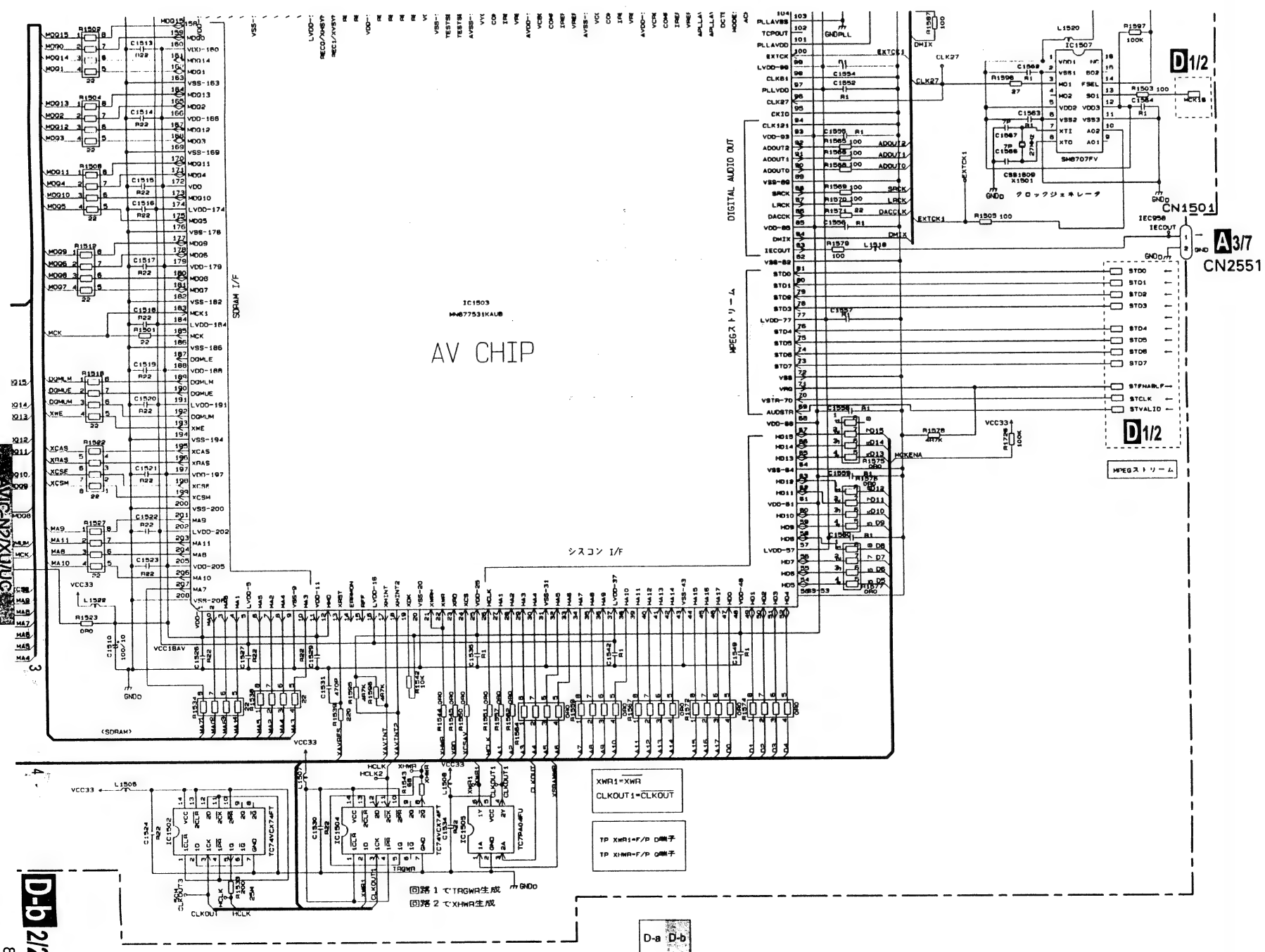
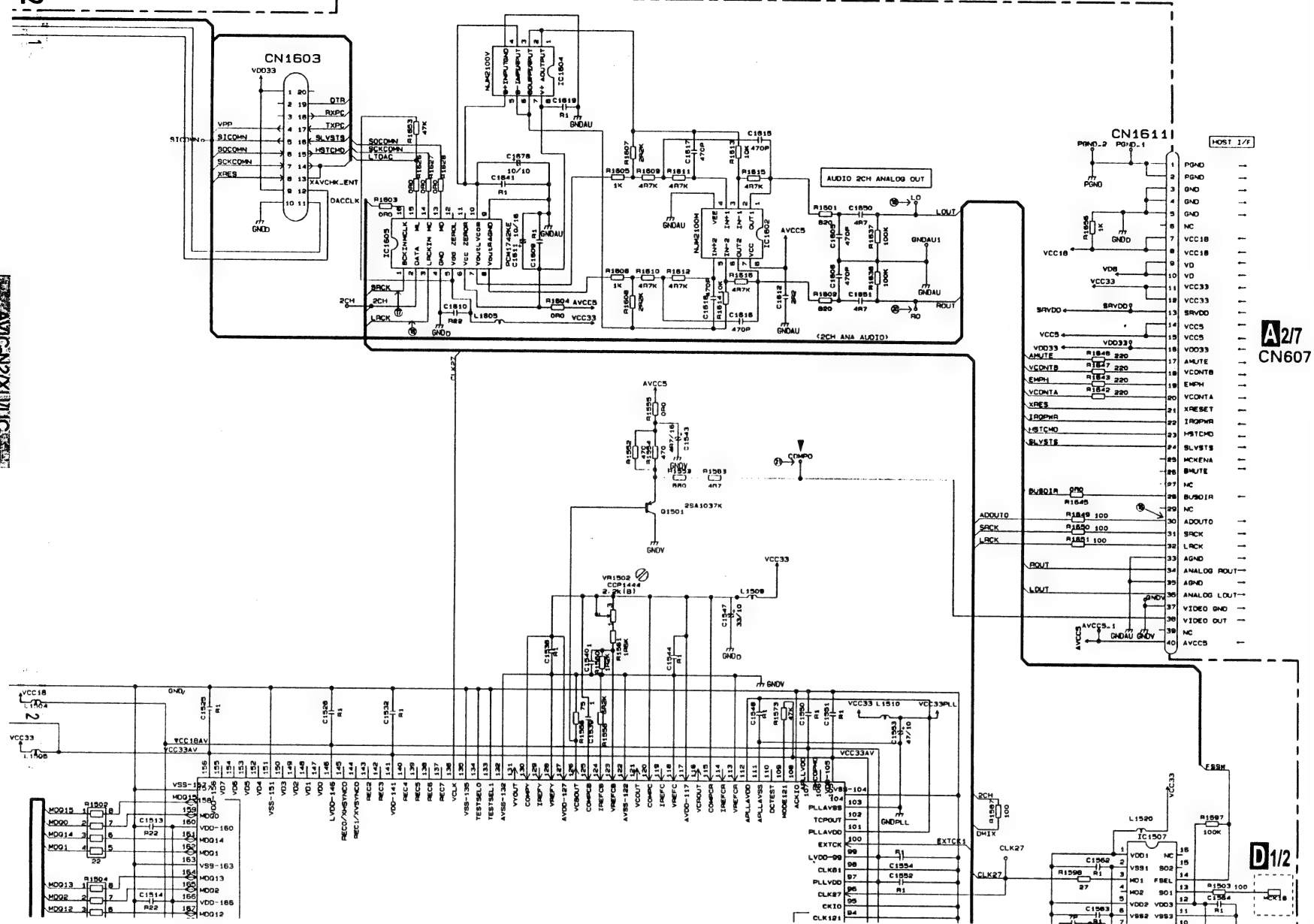


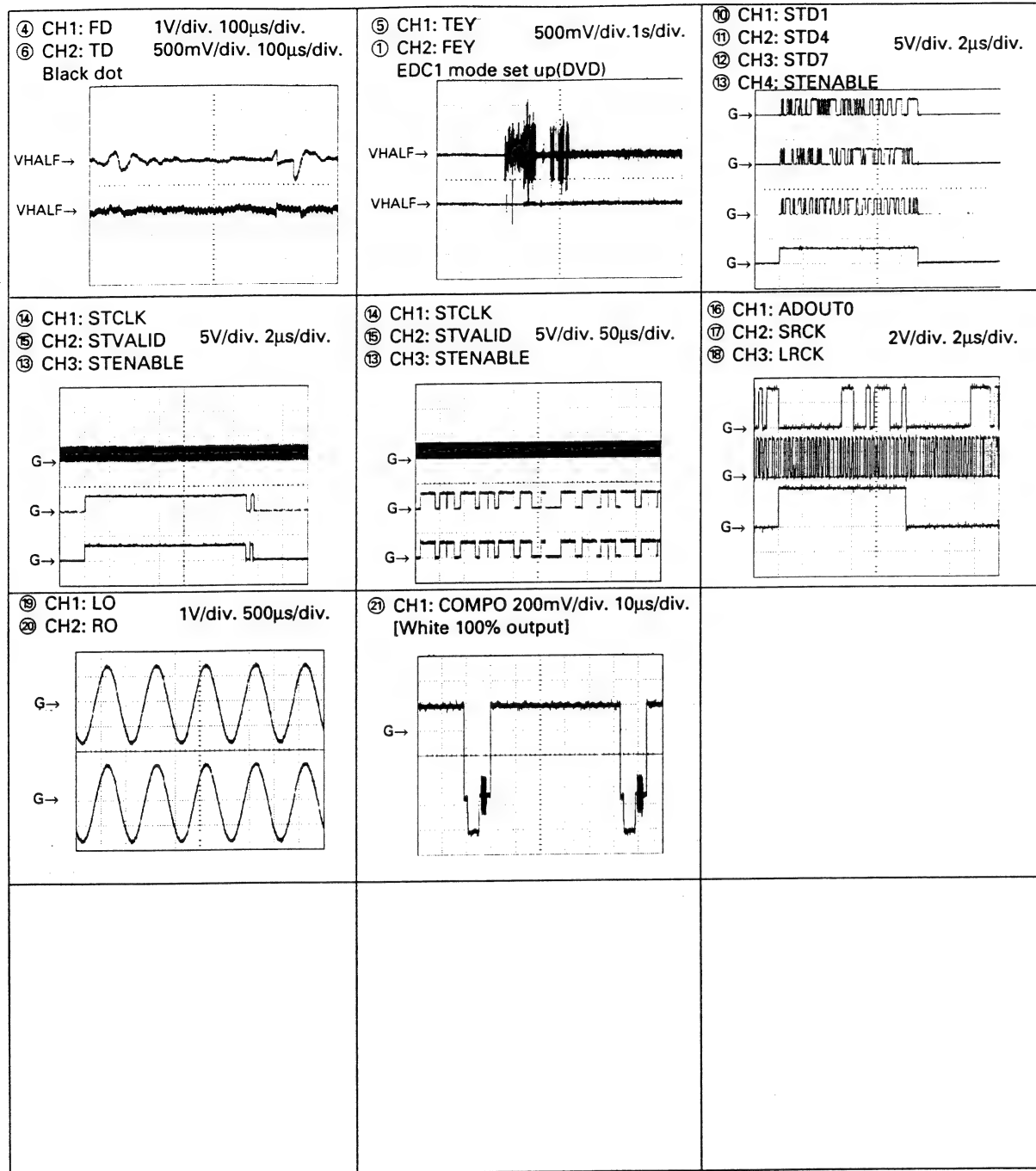


D2/2 DVD CORE UNIT(MS3)(CPU)







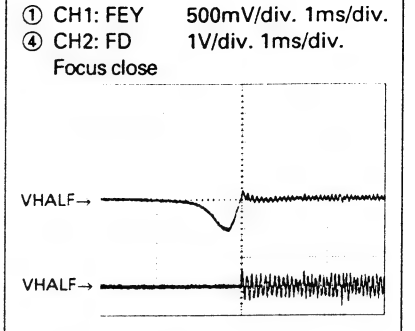
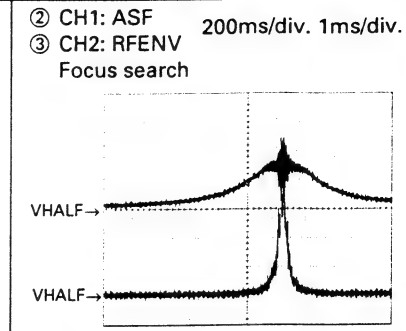
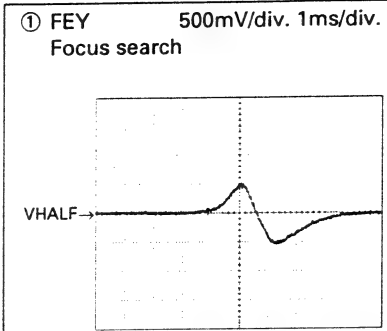


Waveforms

Note: 1. The encircled number denote measuring points in the circuit diagram.
 2. Reference voltage VHALF : 1.65V

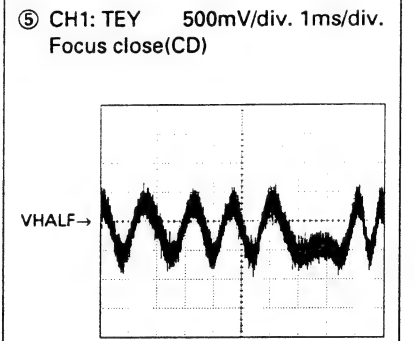
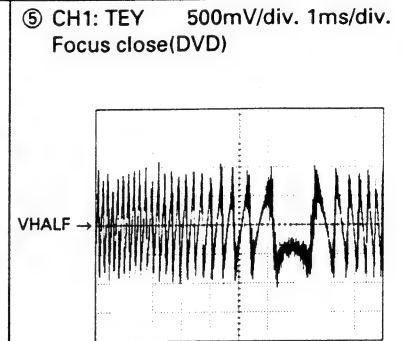
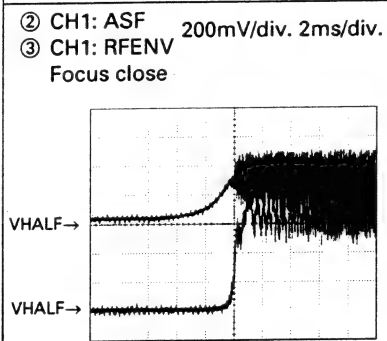
A

A



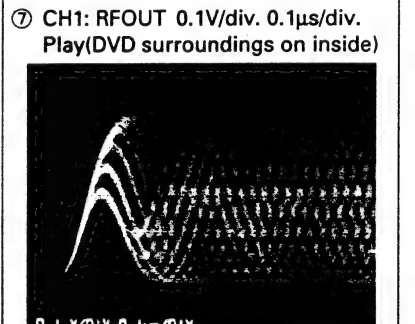
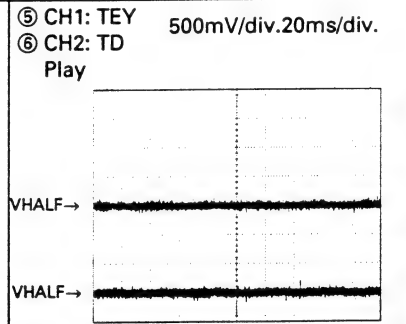
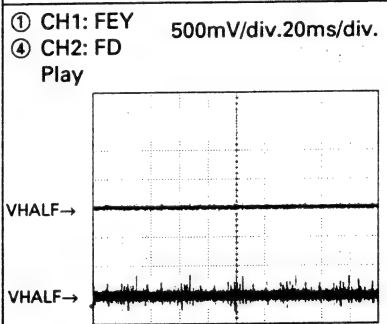
B

B



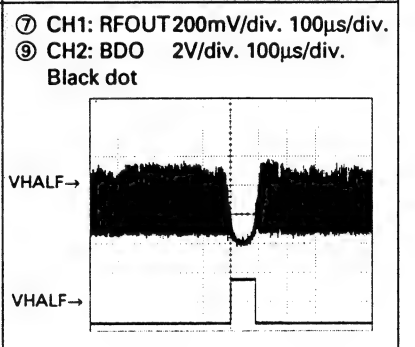
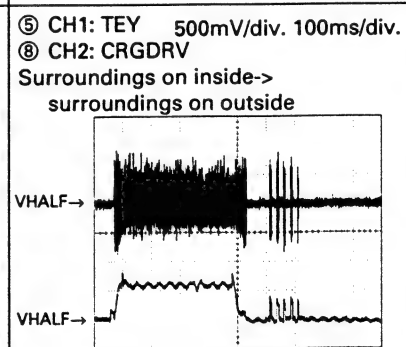
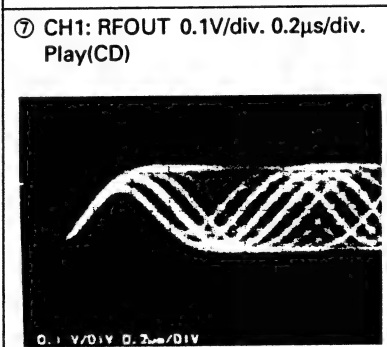
C

C



D

D



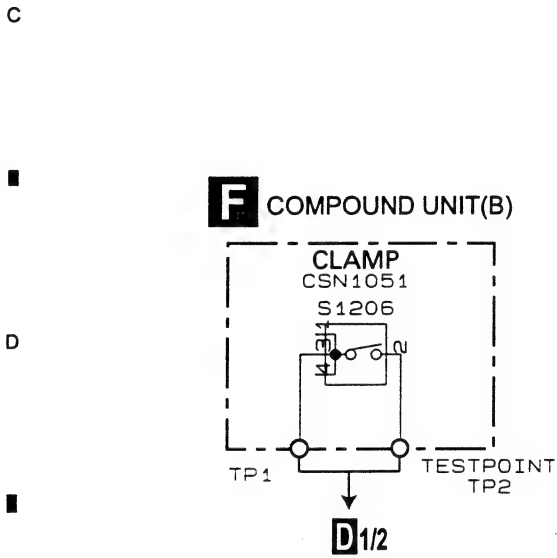
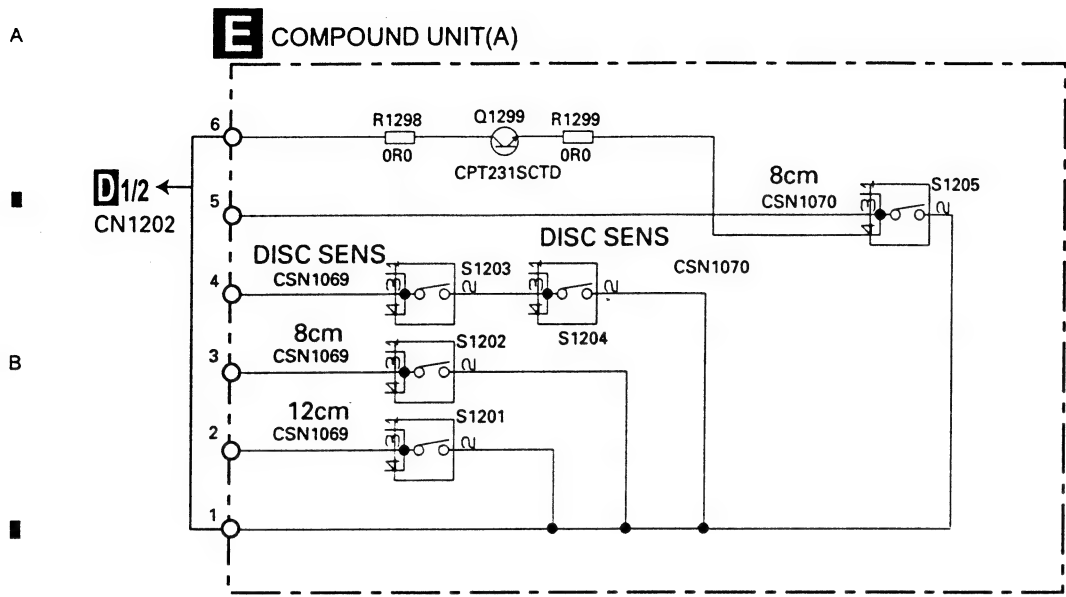
E

E

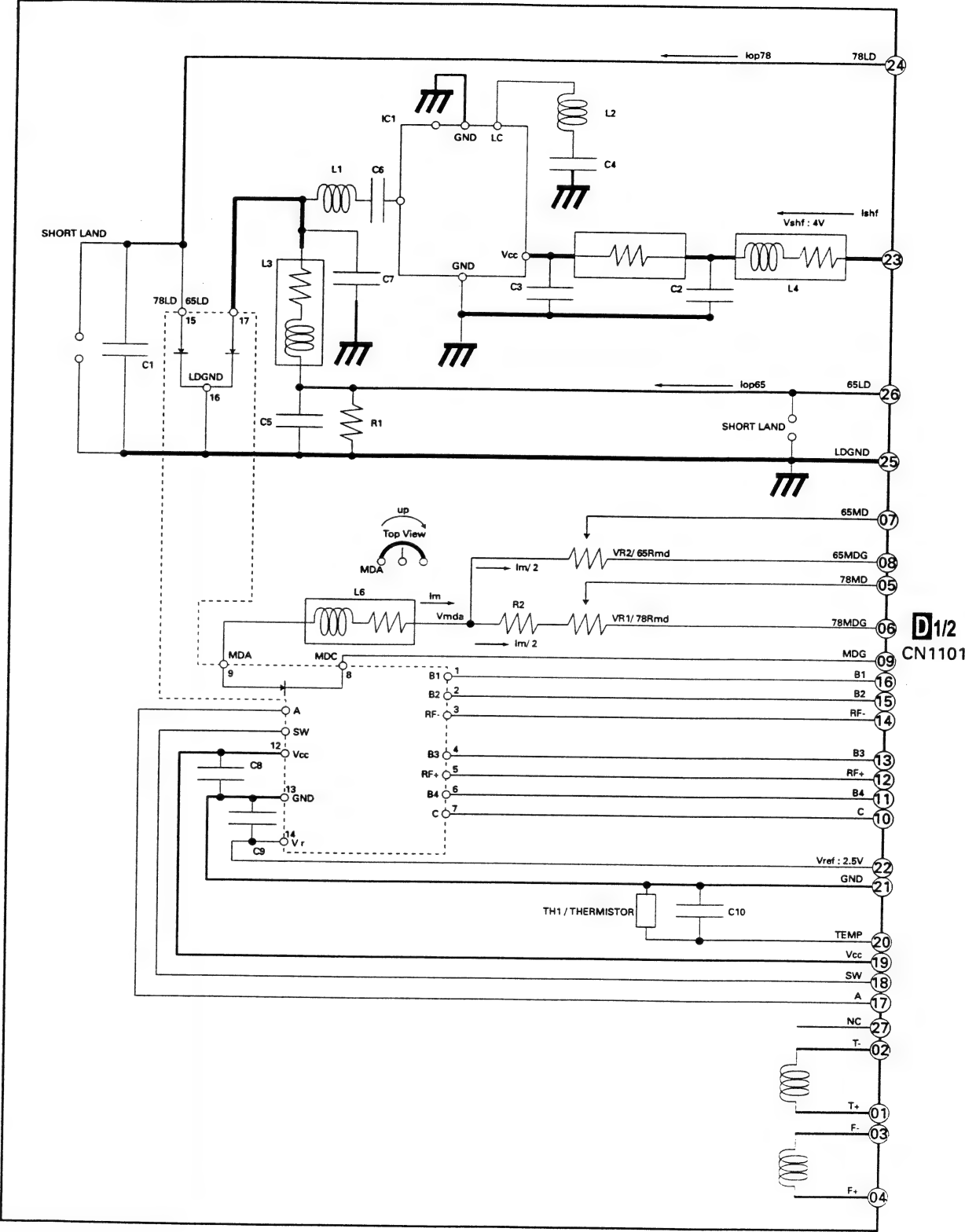
F

F

3.14 COMPOUND UNIT(A) AND COMPOUND UNIT(B)



3.15 PU UNIT(REFERENCE)

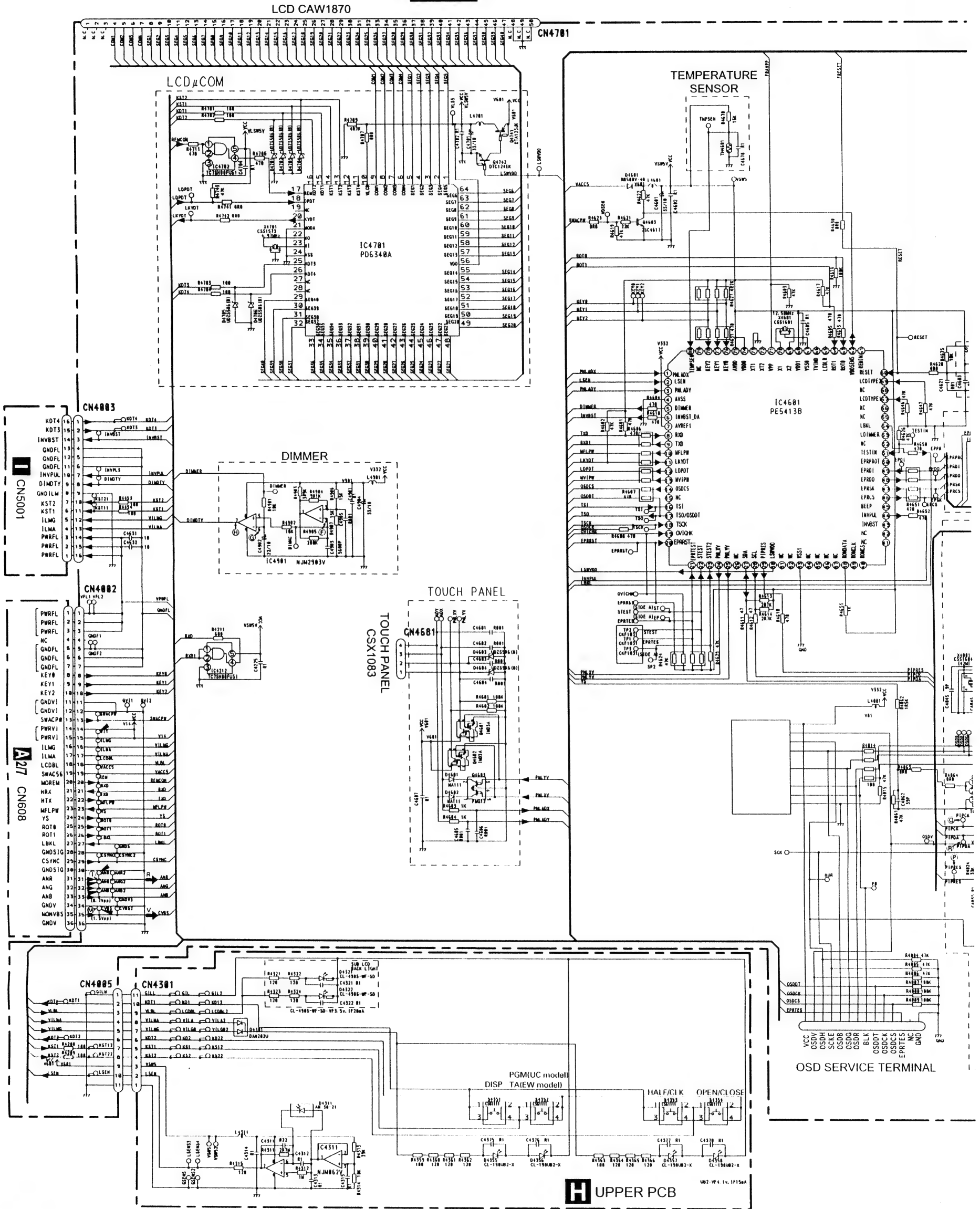


E F

E F

3.16 MONITOR PCB AND UPPER PCB(GUIDE PAGE)

G-a

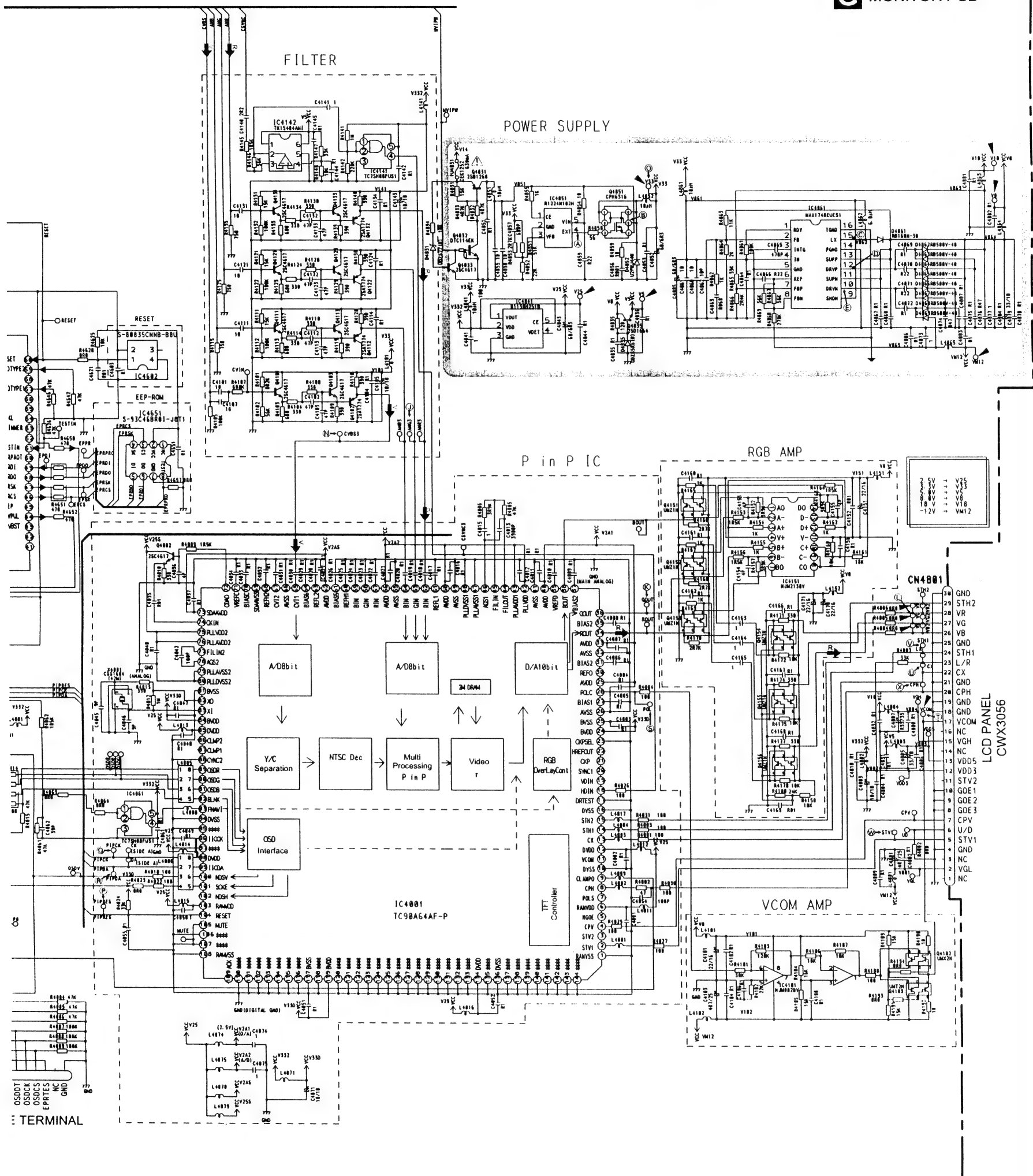


H UPPER PCB

G H

G-b

G MONITOR PCB

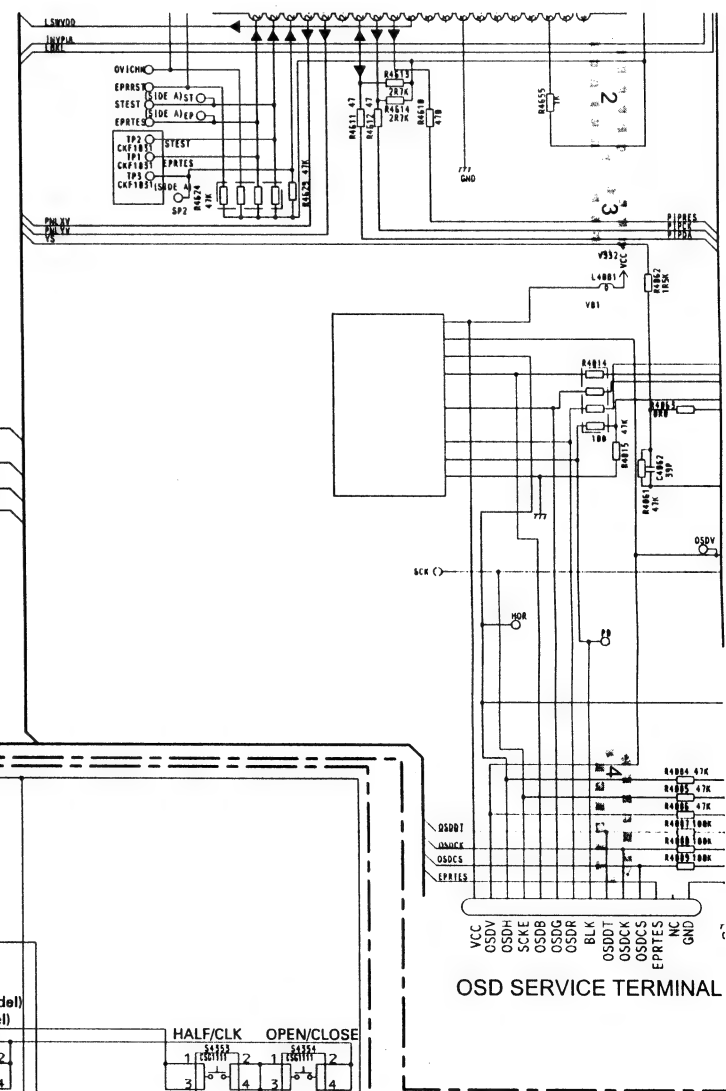
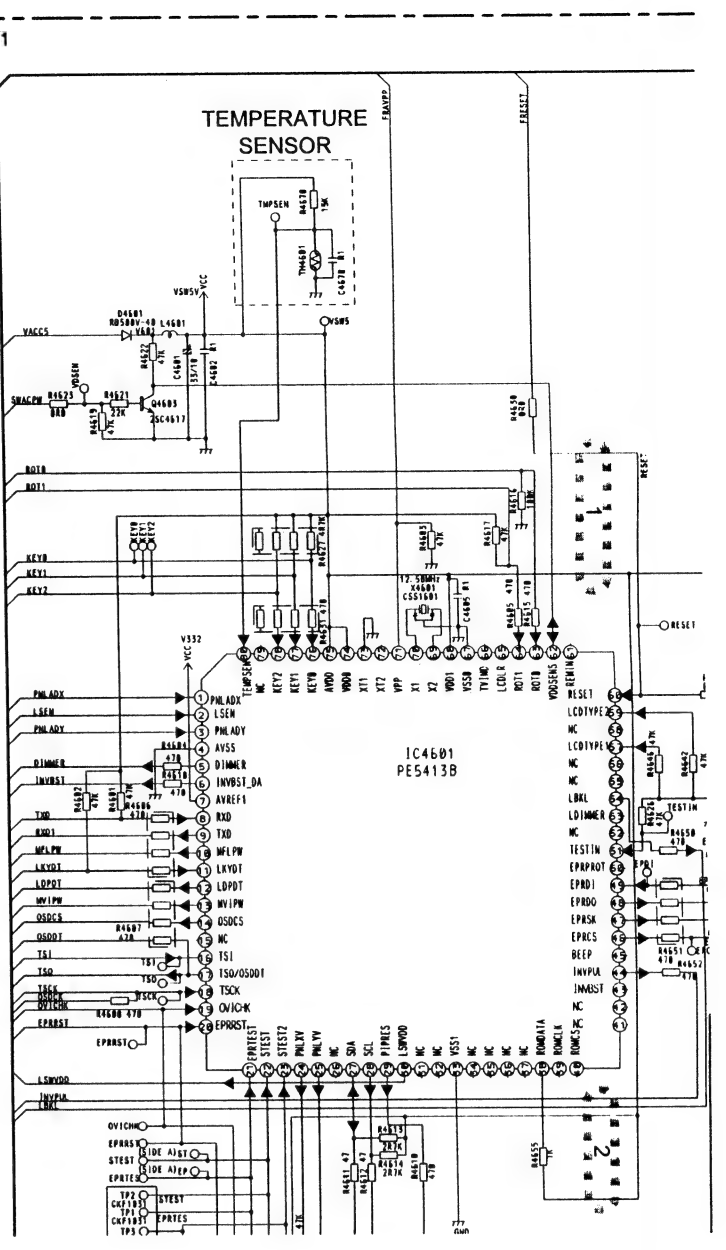


MONITOR UNIT
Consists of
MONITOR PCB
UPPER PCB
INVERTER PCB

V Composite Video Signal
R RGB Signal

G-b

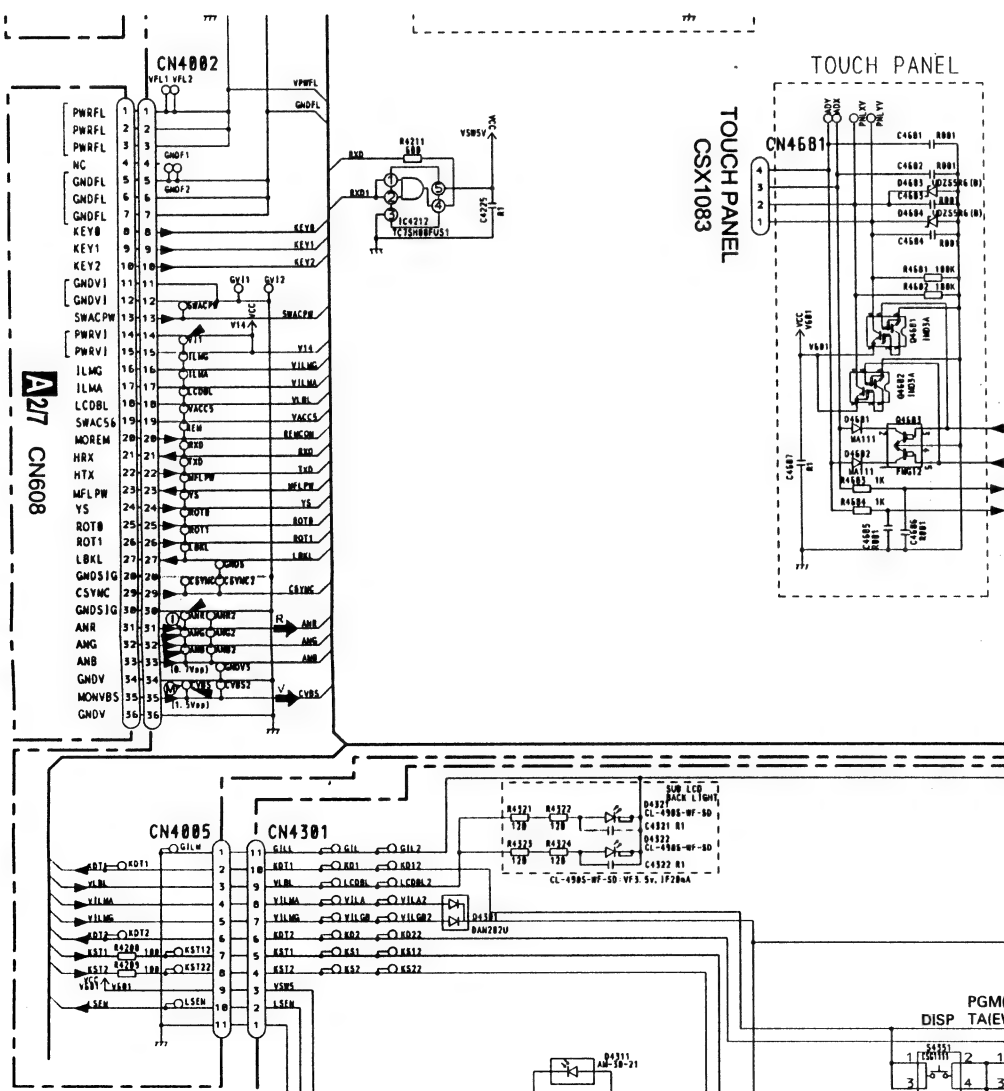
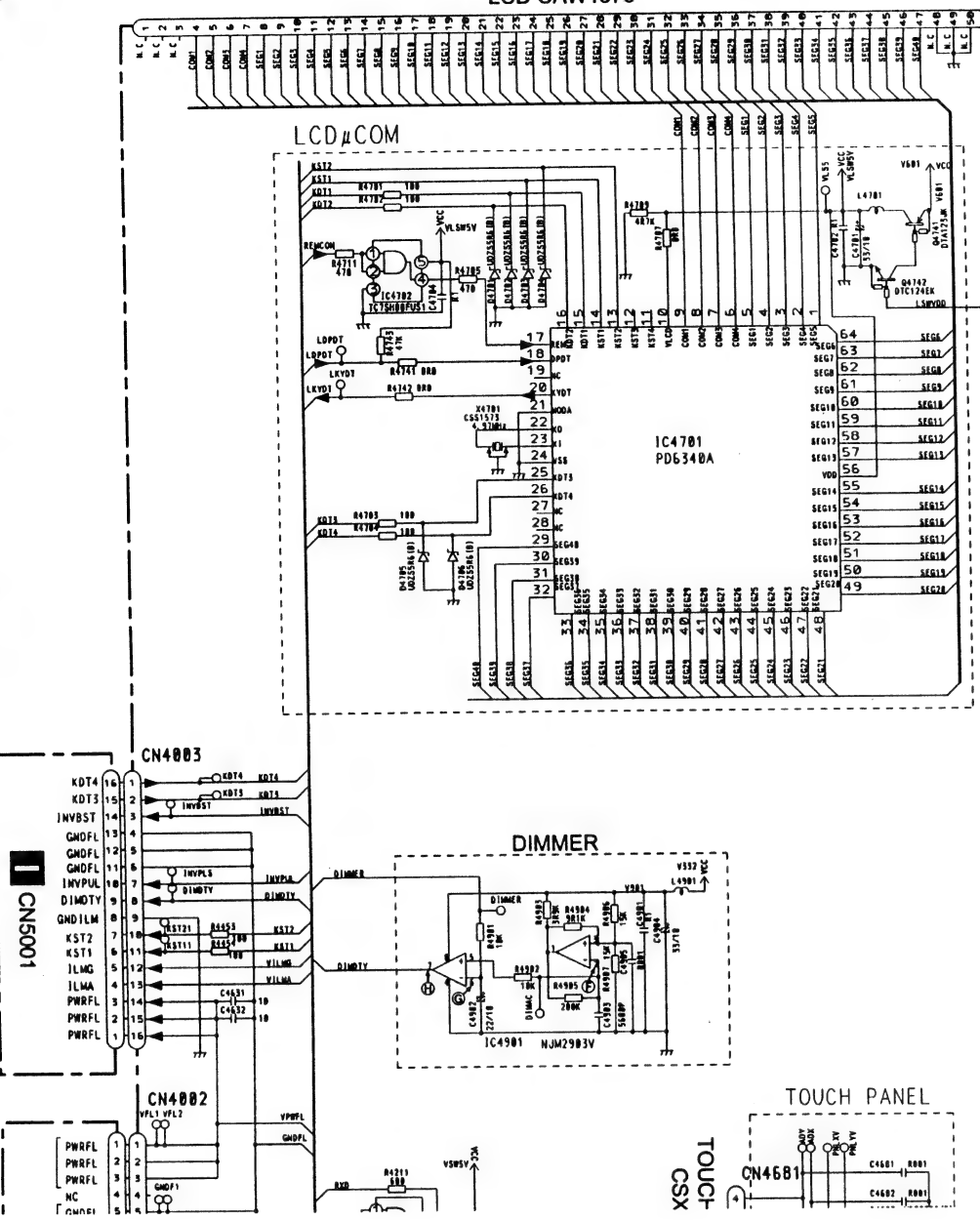
G-b



UPPER PCB

G-b

G-b



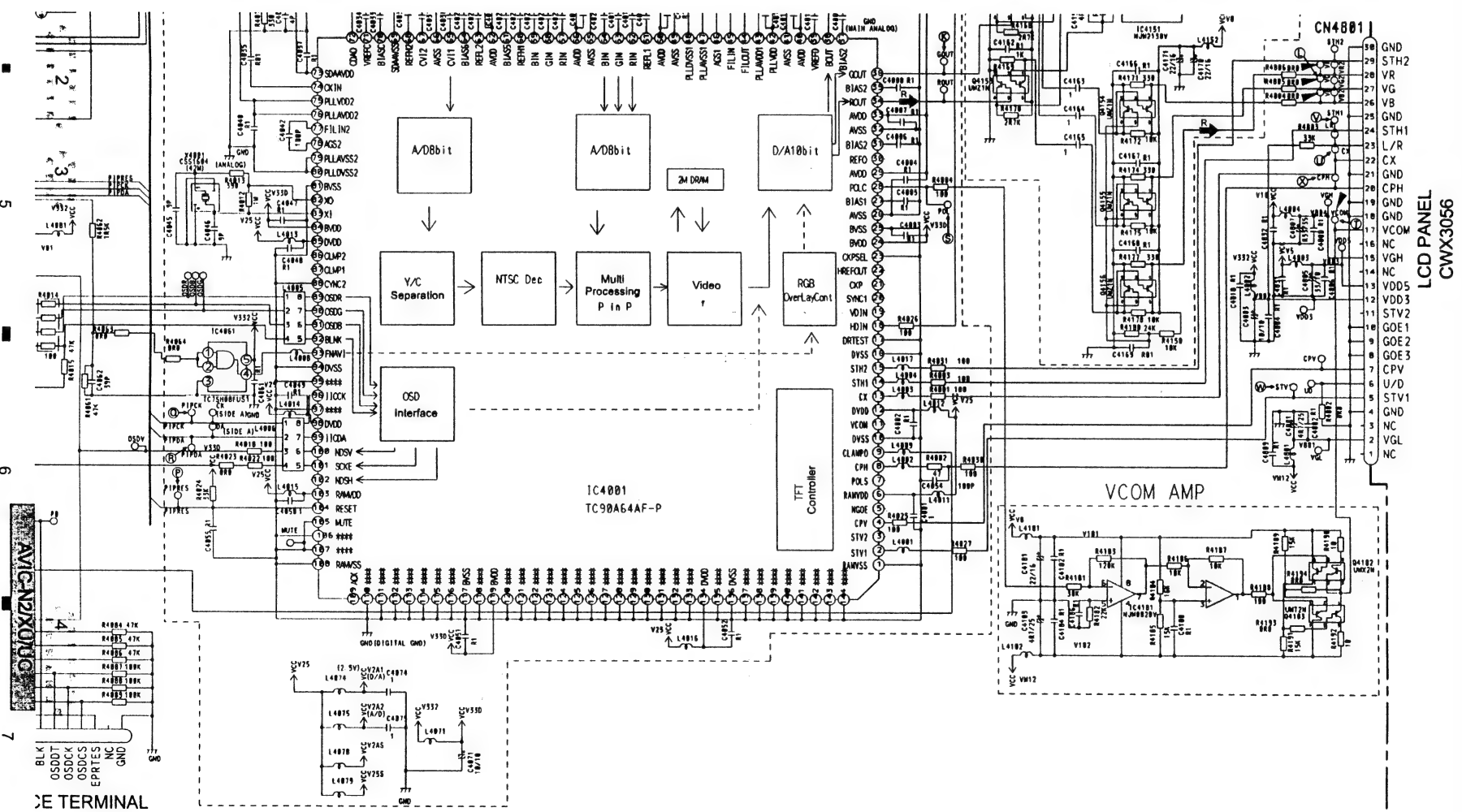
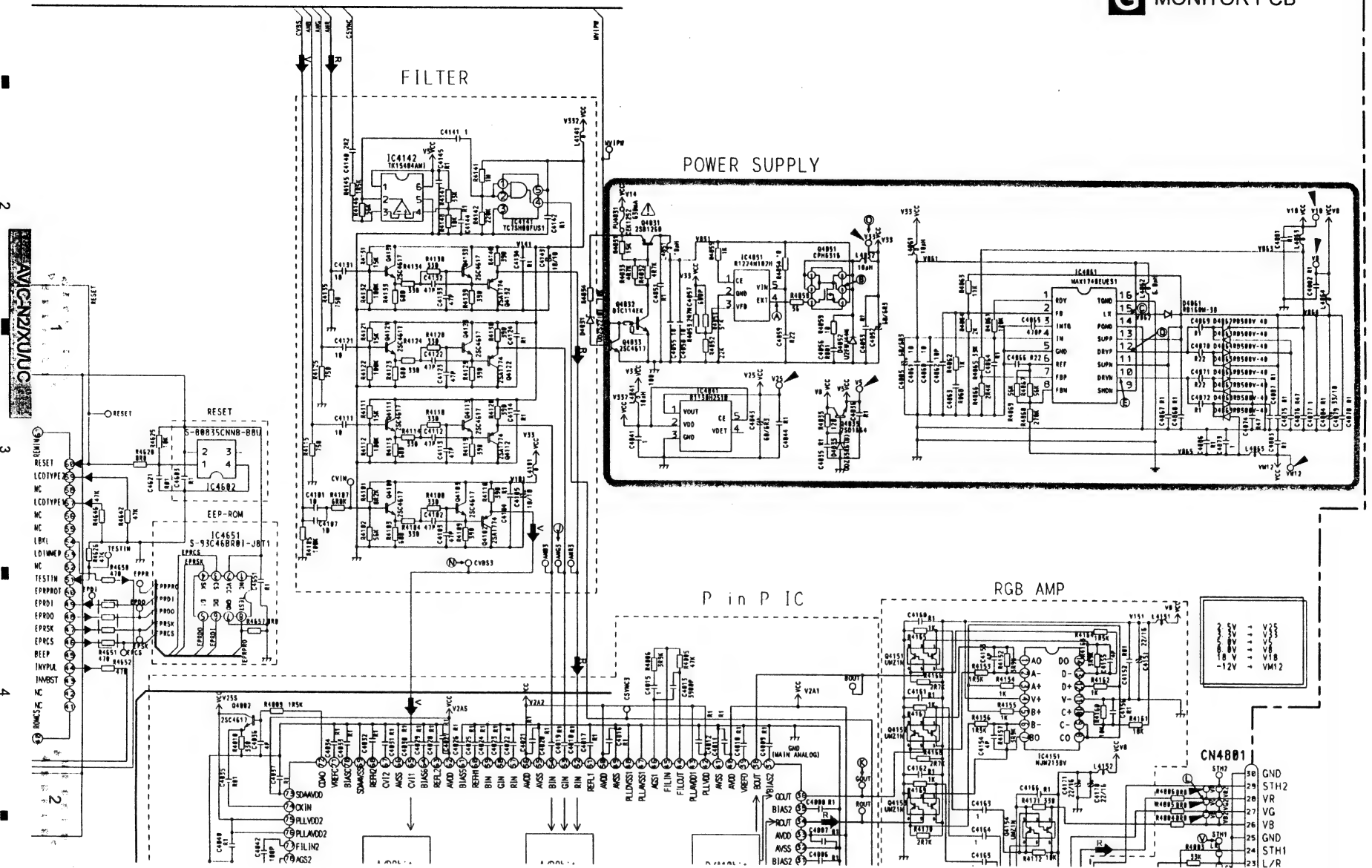
UPPER PCB

G-a

G-a

94

95



MONITOR UNIT
Consists of
MONITOR PCB
UPPER PCB
INVERTER PCB

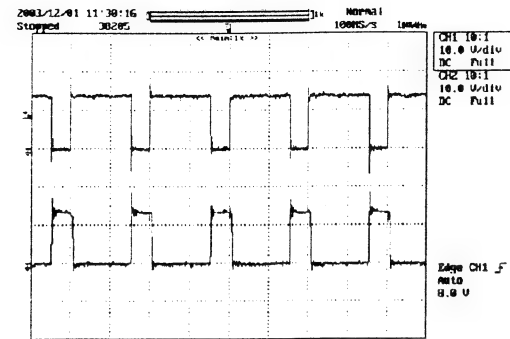
V → Composite Video Signal
R → RGB Signal

Waveforms

The encircled number denote measuring pointes in the circuit diagram.

A

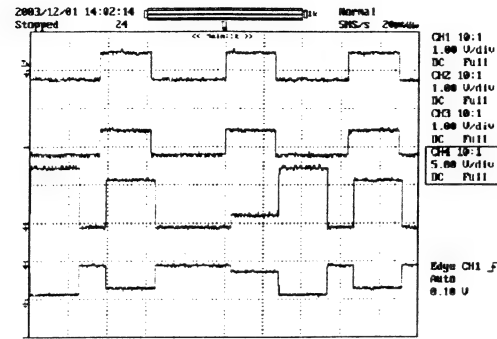
- Ⓐ CH1:IC4851 Pin 4
Ⓑ CH2:Q4851 Pin 5



B

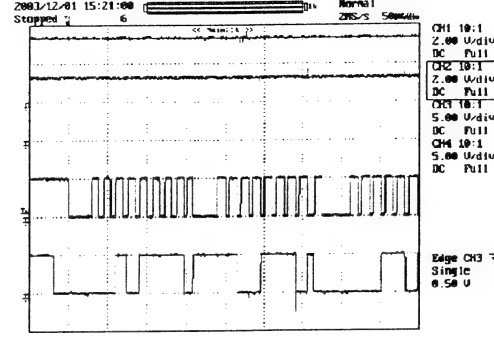
• INPUT : Color bar signal

- Ⓐ CH1:ANG Ⓑ CH3:GOUT
Ⓒ CH2:ANG3 Ⓓ CH4:VG



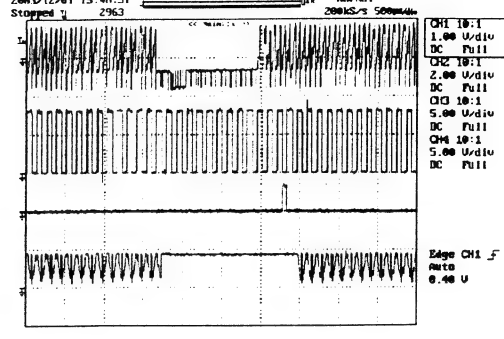
- Ⓐ CH1:V33
Ⓑ CH2:PIPRES

- Ⓒ CH3:PIPCK
Ⓓ CH4:PIPDA



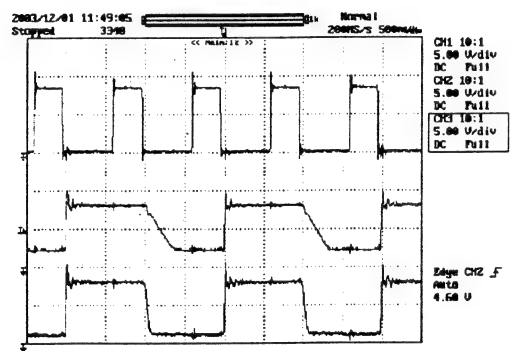
- Ⓐ CH1:CVBS
Ⓑ CH2:CX

- Ⓒ CH3:STV1
Ⓓ CH4:VG



C

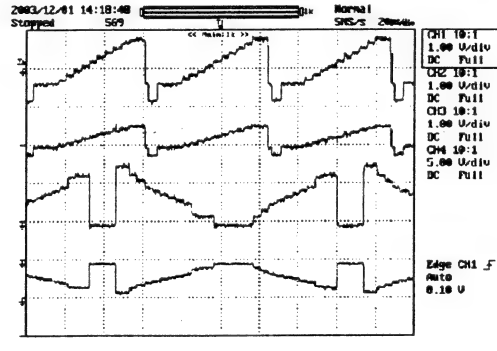
- Ⓐ CH1:IC4861 Pin 15 Ⓑ CH3:IC4861 Pin 10
Ⓒ CH2:IC4861 Pin 12



D

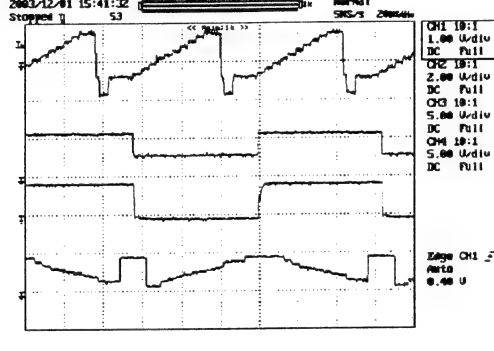
• INPUT : 10STEP VTR IN

- Ⓐ CH1:CVBS Ⓑ CH3:GOUT
Ⓒ CH2:CVBS3 Ⓓ CH4:VG



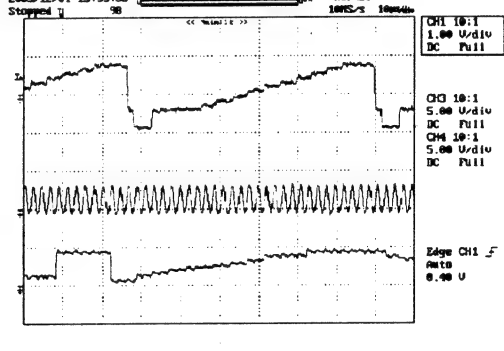
- Ⓐ CH1:CVBS
Ⓑ CH2:POL

- Ⓒ CH3:VCOM
Ⓓ CH4:VG



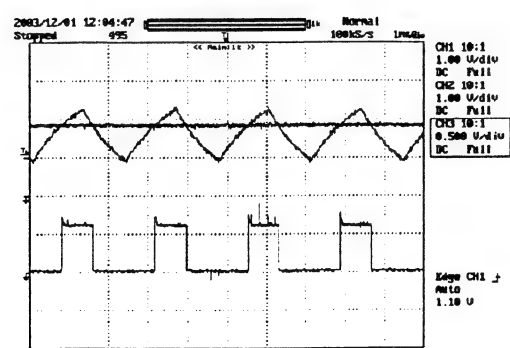
- Ⓐ CH1:CVBS

- Ⓑ CH3:CPH
Ⓒ CH4:VG



E

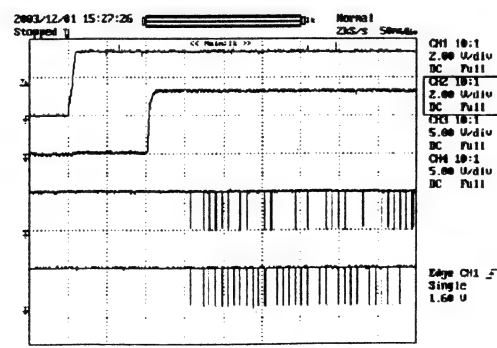
- Ⓐ CH1:IC4901 Pin 2 Ⓑ CH3:IC4901 Pin 7
Ⓒ CH2:IC4901 Pin 6



F

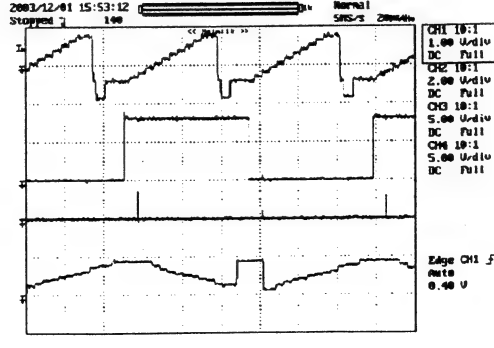
- Ⓐ CH1:V33
Ⓑ CH2:PIPRES

- Ⓒ CH3:PIPCK
Ⓓ CH4:PIPDA



- Ⓐ CH1:CVBS
Ⓑ CH2:CX

- Ⓒ CH3:STH1
Ⓓ CH4:VG



3.17 INVERTER PCB

A

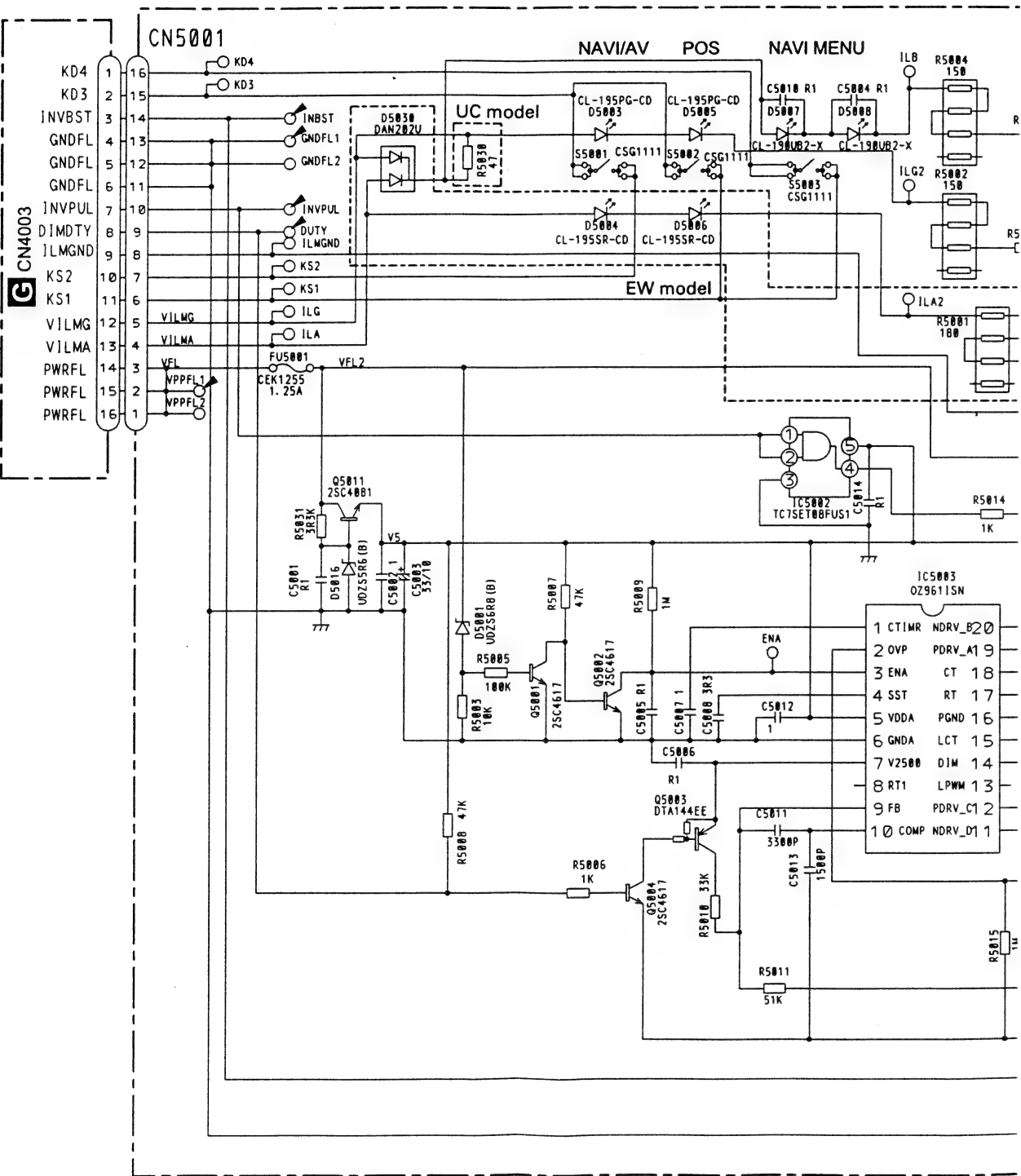
B

C

D

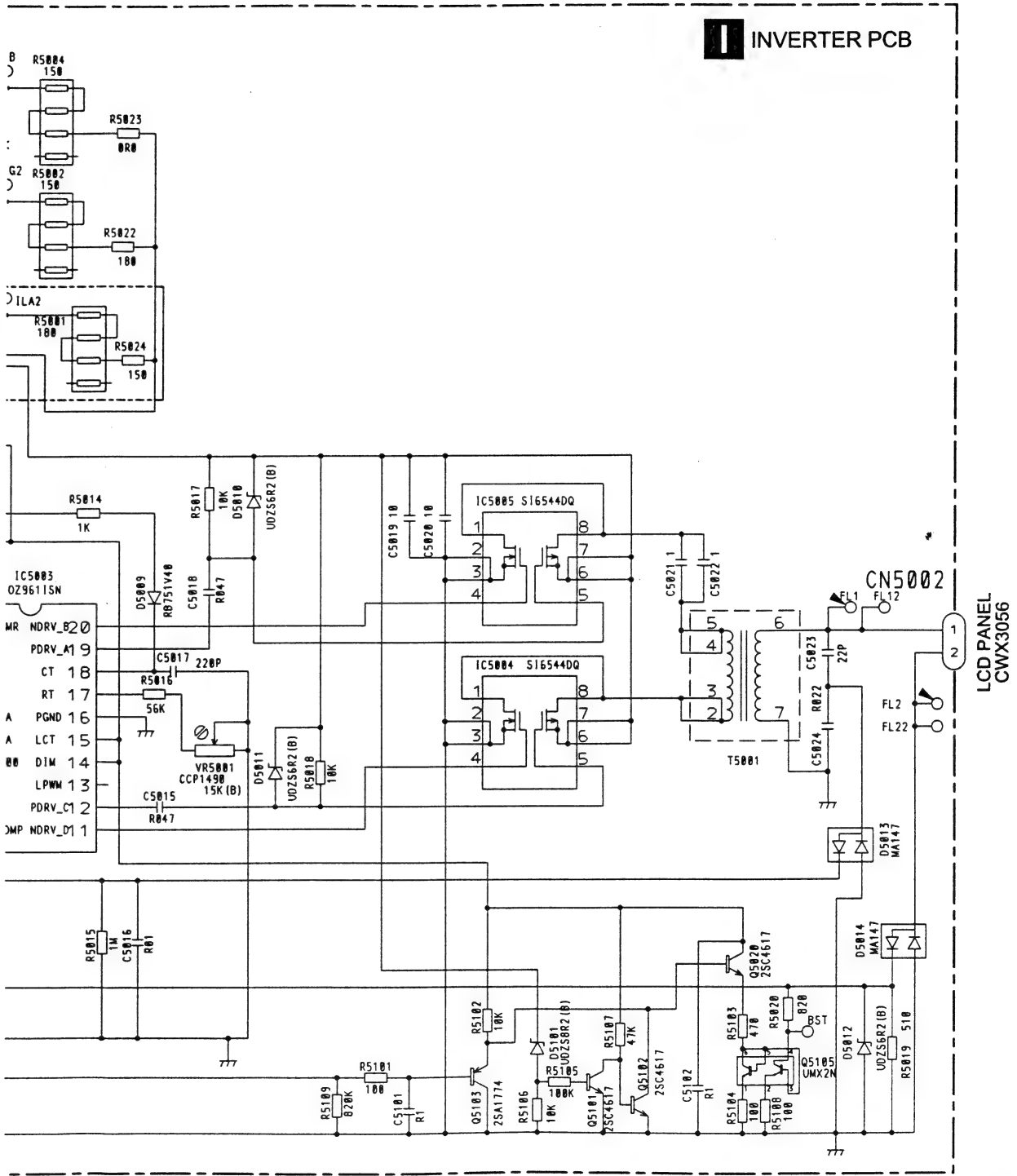
E

F

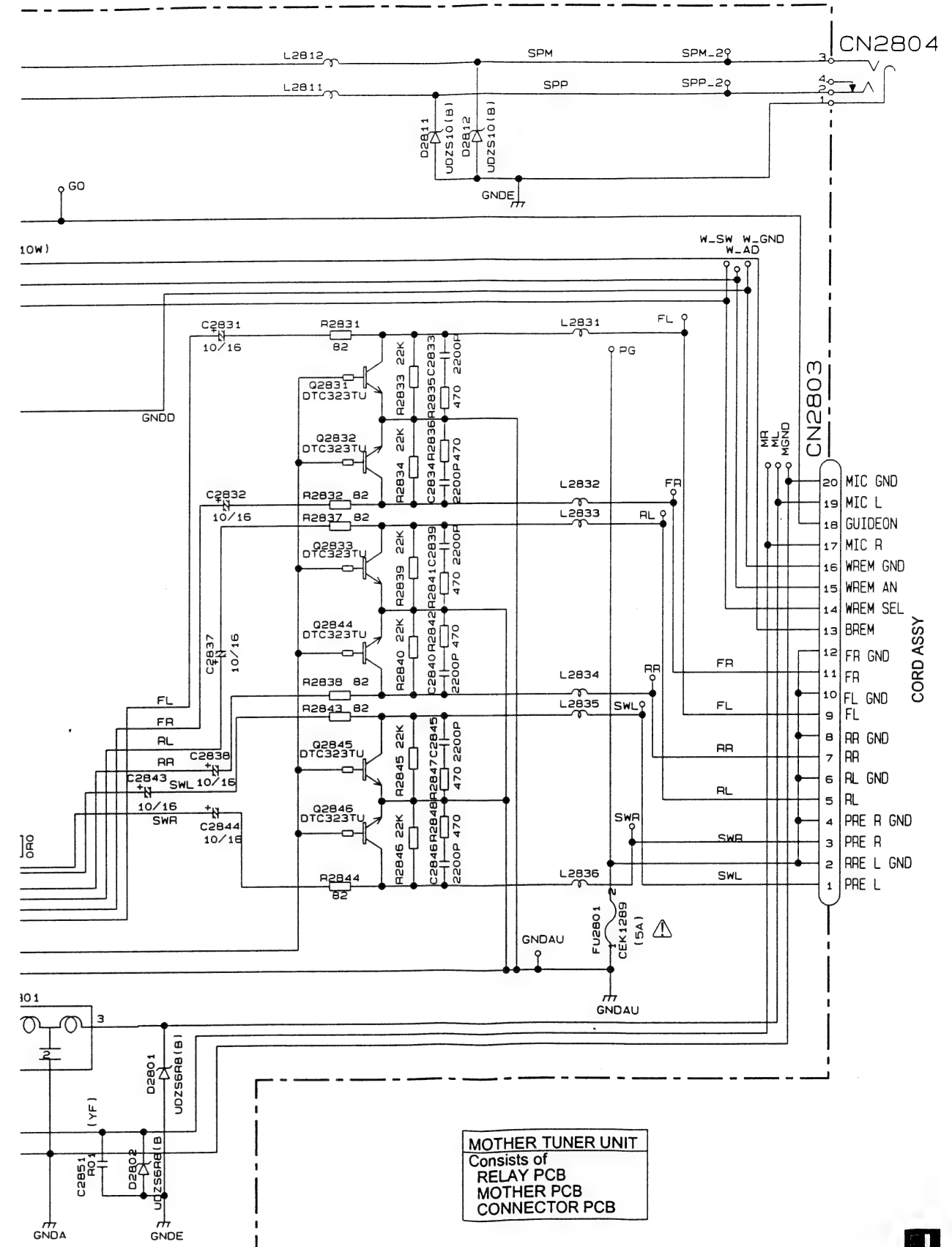
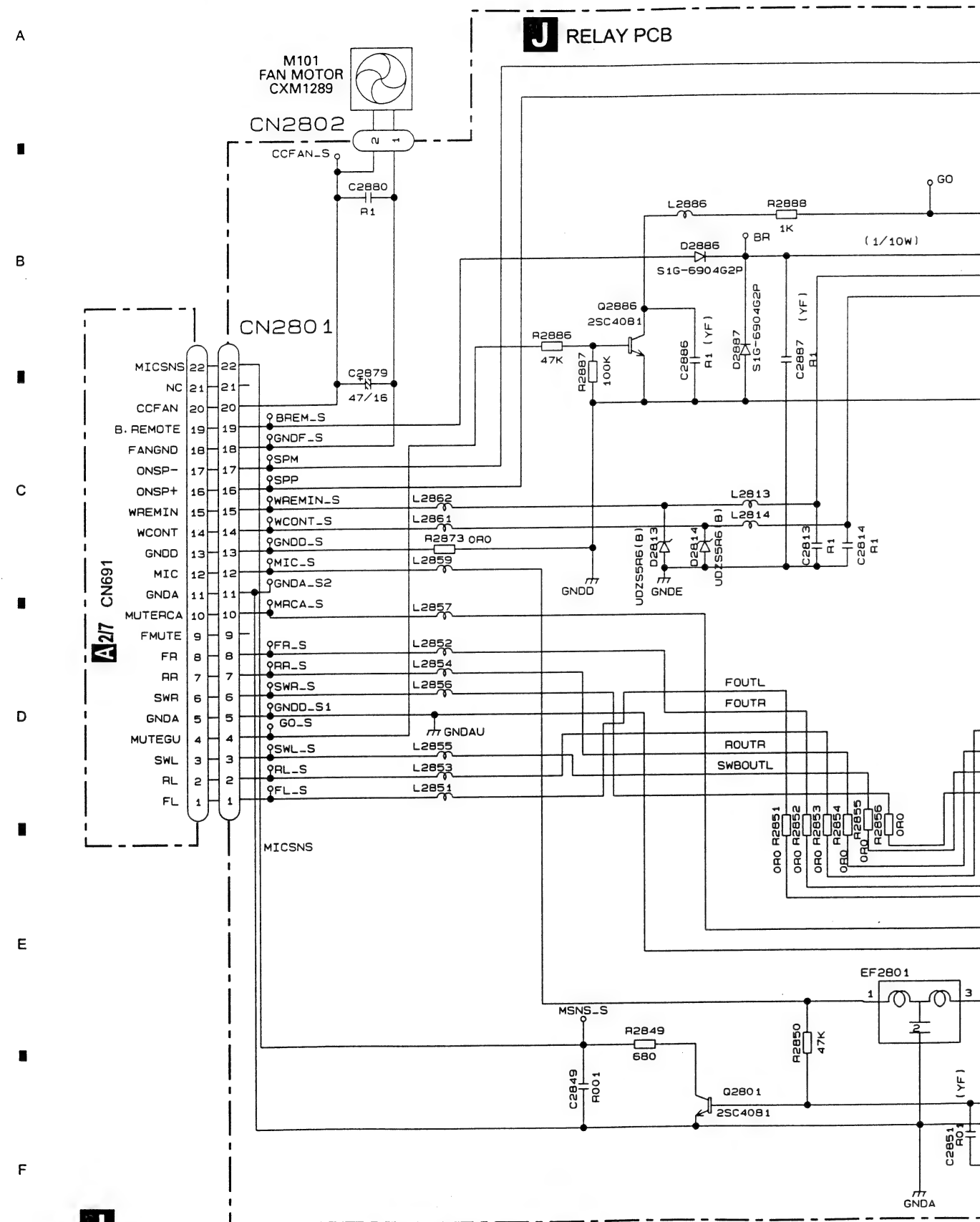


MONITOR UNIT
Consists of
MONITOR PCB
UPPER PCB
INVERTER PCB

INVERTER PCB



3.18 RELAY PCB



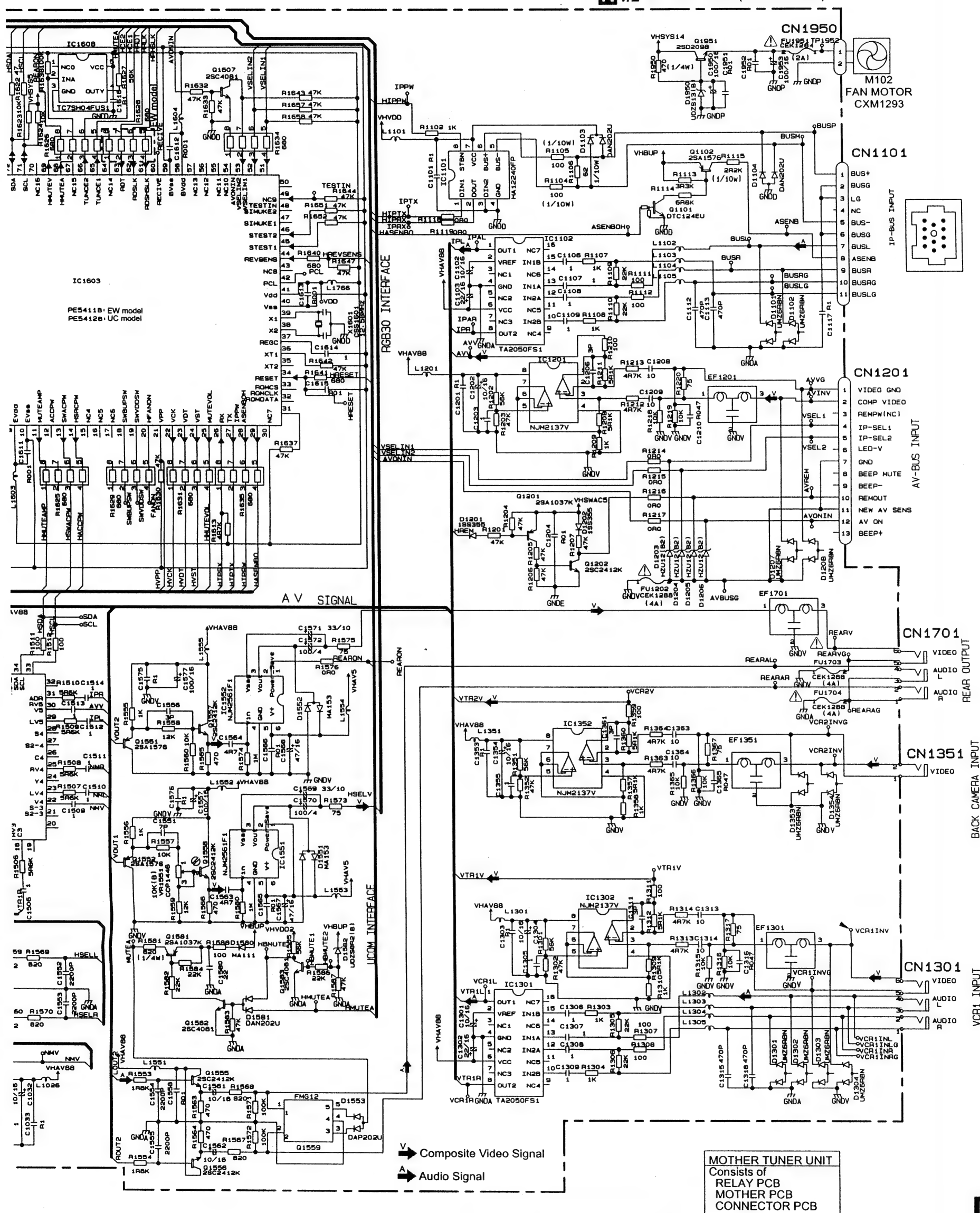
MOTHER TUNER UNIT
Consists of RELAY PCB MOTHER PCB CONNECTOR PCB

4

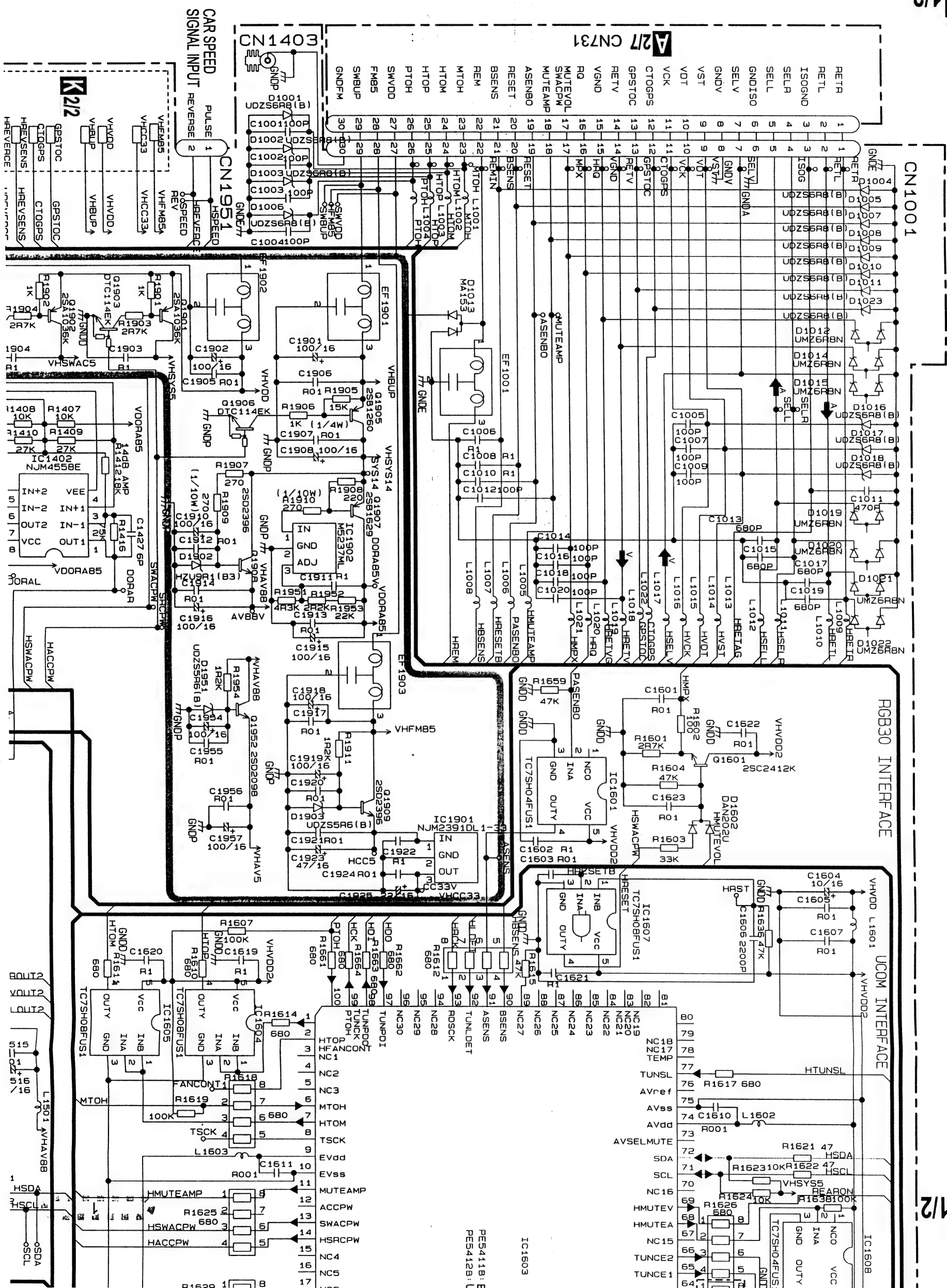


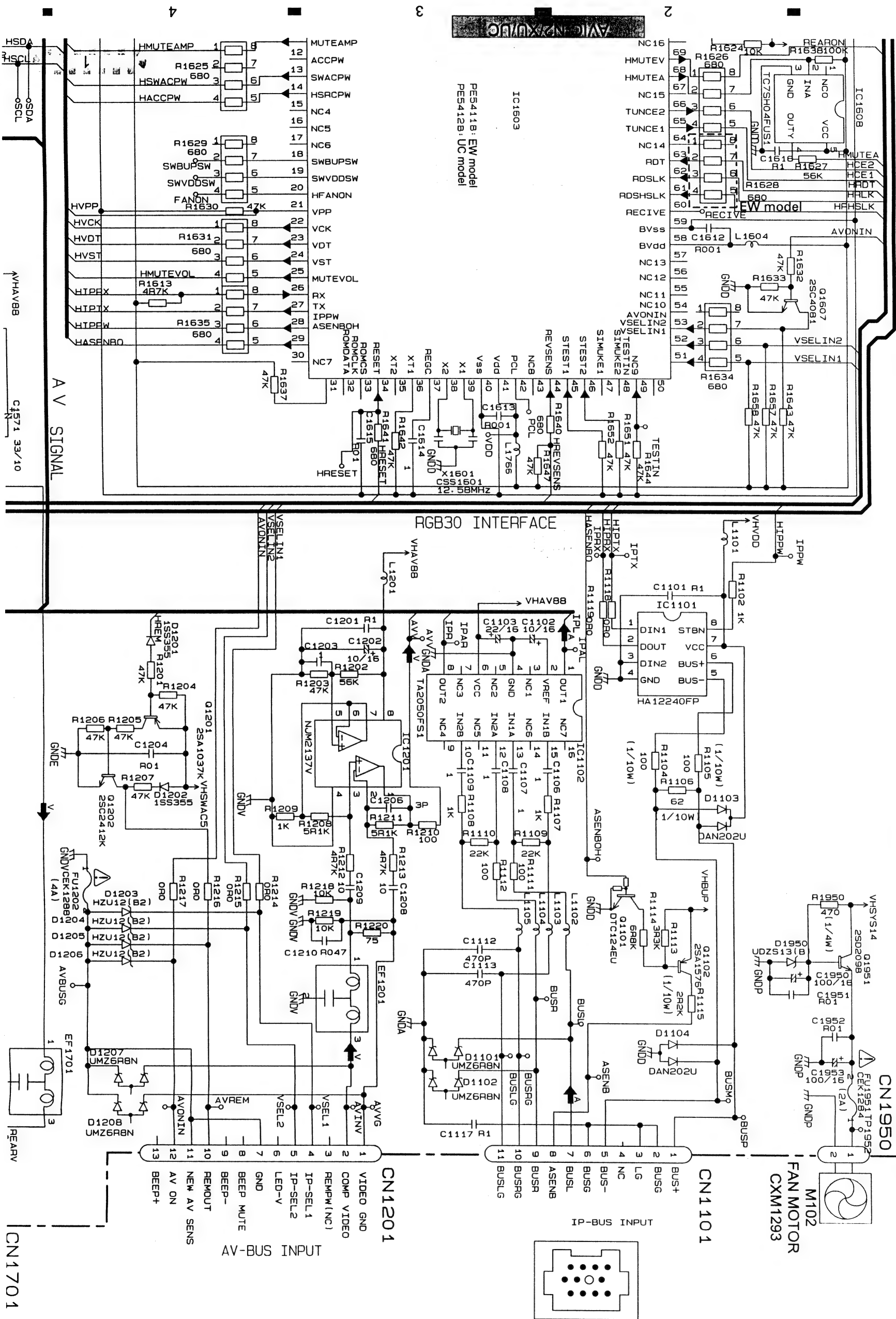
K-b 1/2

K1/2 MOTHER PCB (H/A SYSTEM)

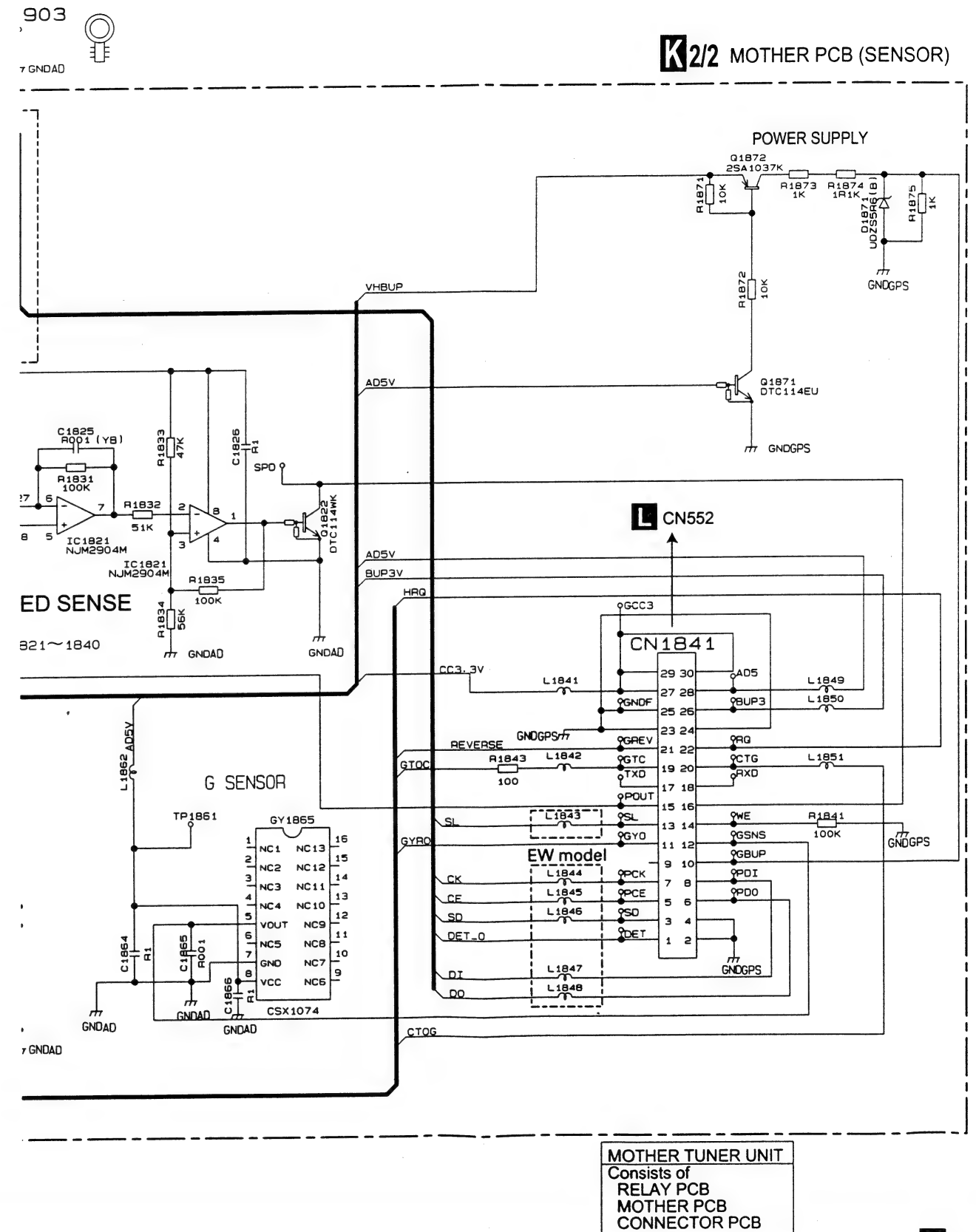
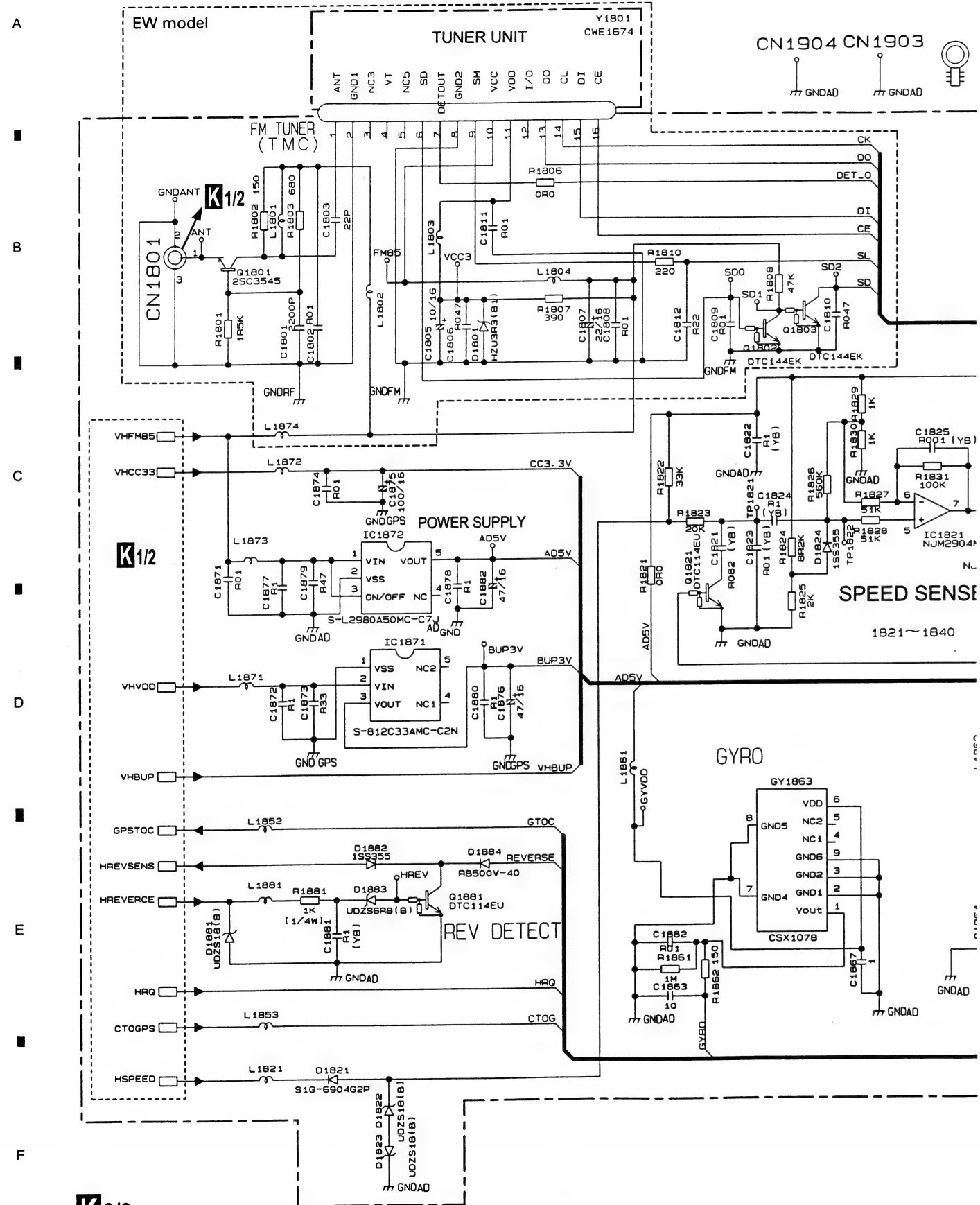


MOTHER TUNER UNIT
Consists of
RELAY PCB
MOTHER PCB
CONNECTOR PCB





3.20 MOTHER PCB (SENSOR)



3.21 CONNECTOR PCB

A

B

C

D

E

F

A

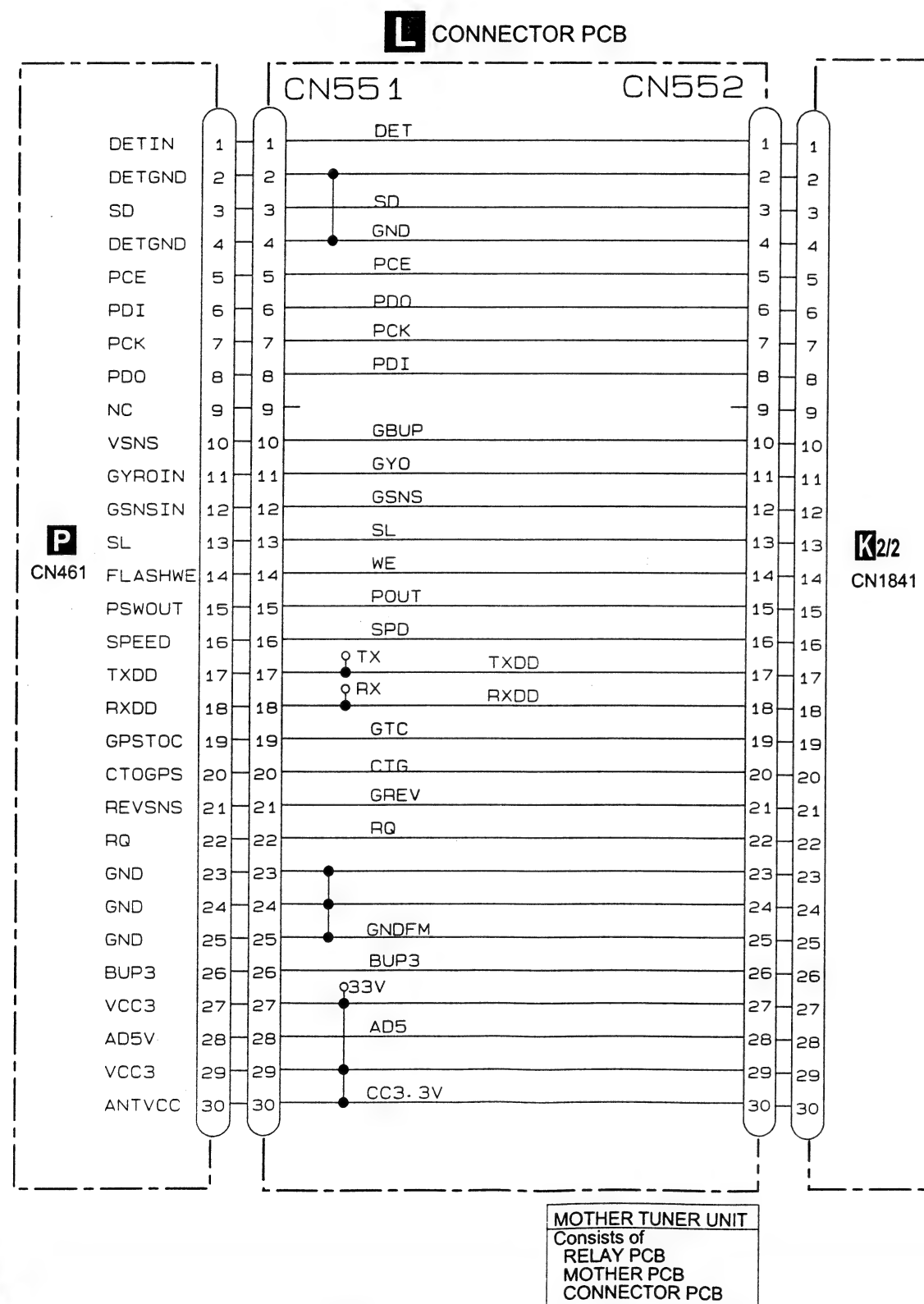
B

C

D

E

F



E



● Waveforms

The encircled number denote measuring points in the circuit diagram.

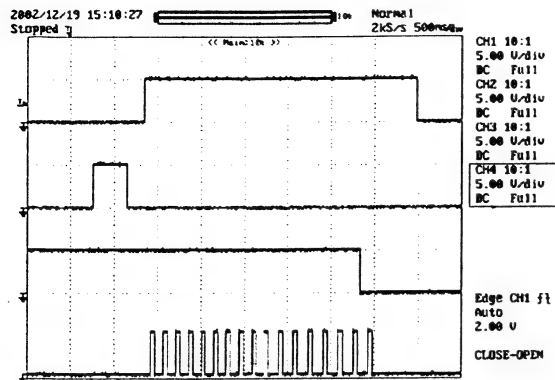
• CLOSE -> OPEN

① CH1:MTR2

② CH2:MTRSEL

③ CH3:LIFTSW

④ CH4:LFTPLS



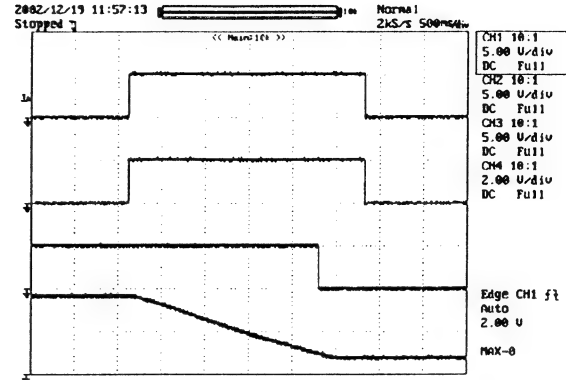
• MAX -> Deg.0 DOWN

⑤ CH1:MTR1

② CH2:MTRSEL

⑥ CH3:ANGLSW

⑦ CH4:ANGLIN



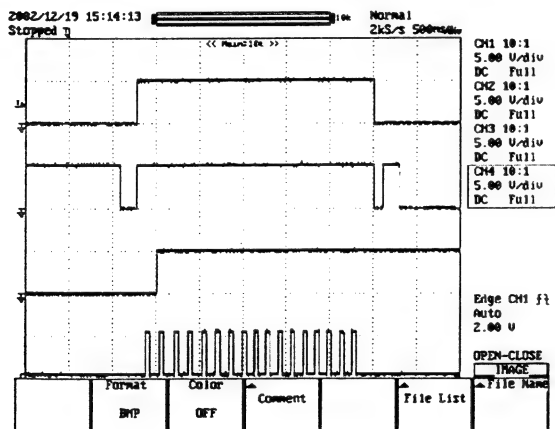
• OPEN -> CLOSE

① CH1:MTR2

② CH2:MTRSEL

③ CH3:LIFTSW

④ CH4:LFTPLS



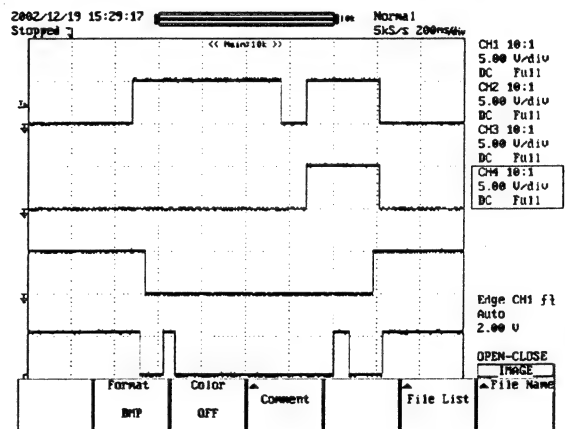
• Set back open -> Set

① CH1:MTR2

⑧ CH2:MTRS

③ CH3:LIFTSW

④ CH4:LFTPLS



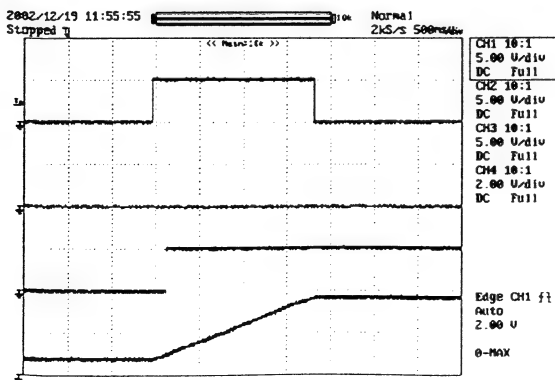
• 0->MAX

⑤ CH1:MTR1

② CH2:MTRSEL

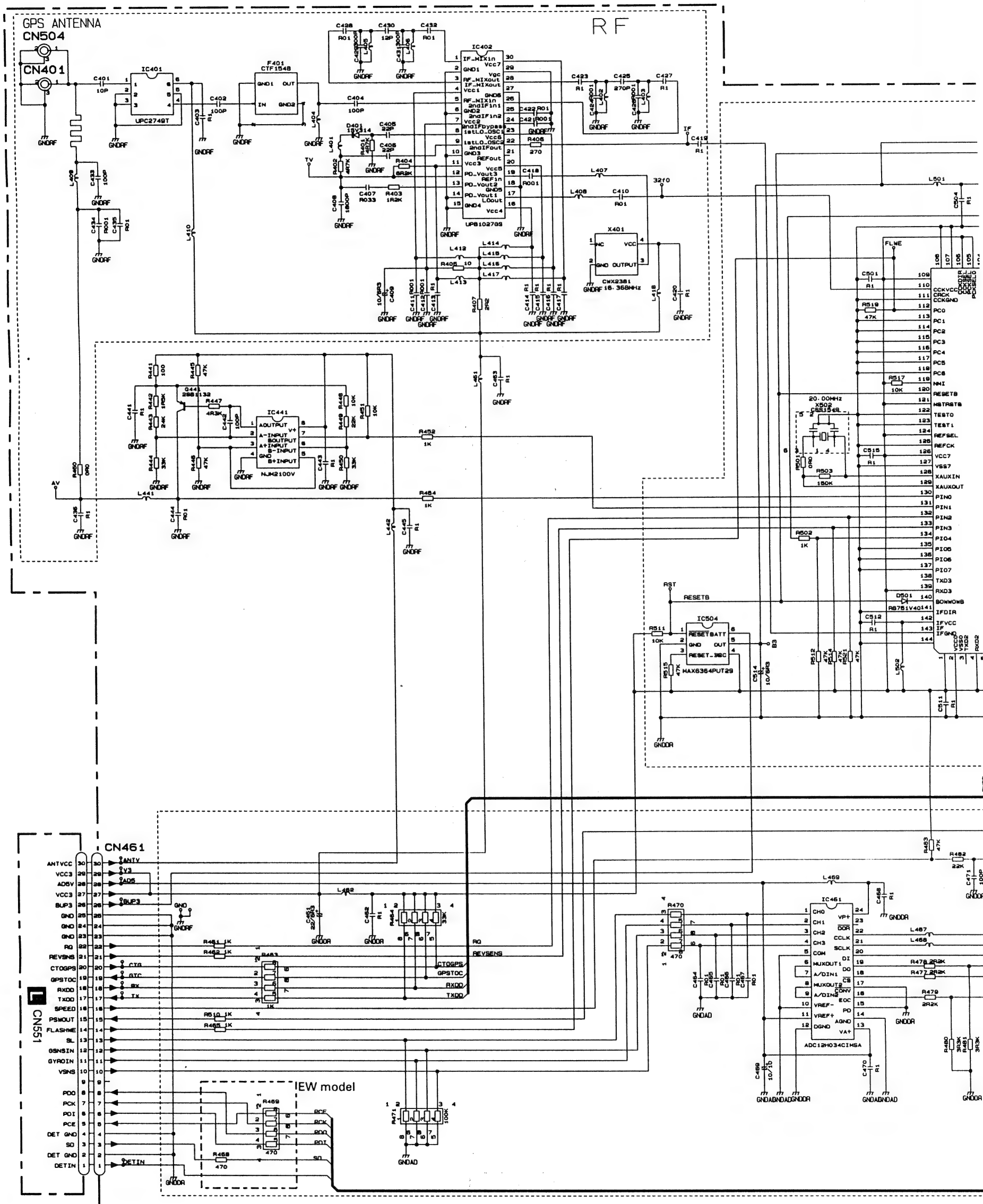
⑥ CH3:ANGLSW

⑦ CH4:ANGLIN



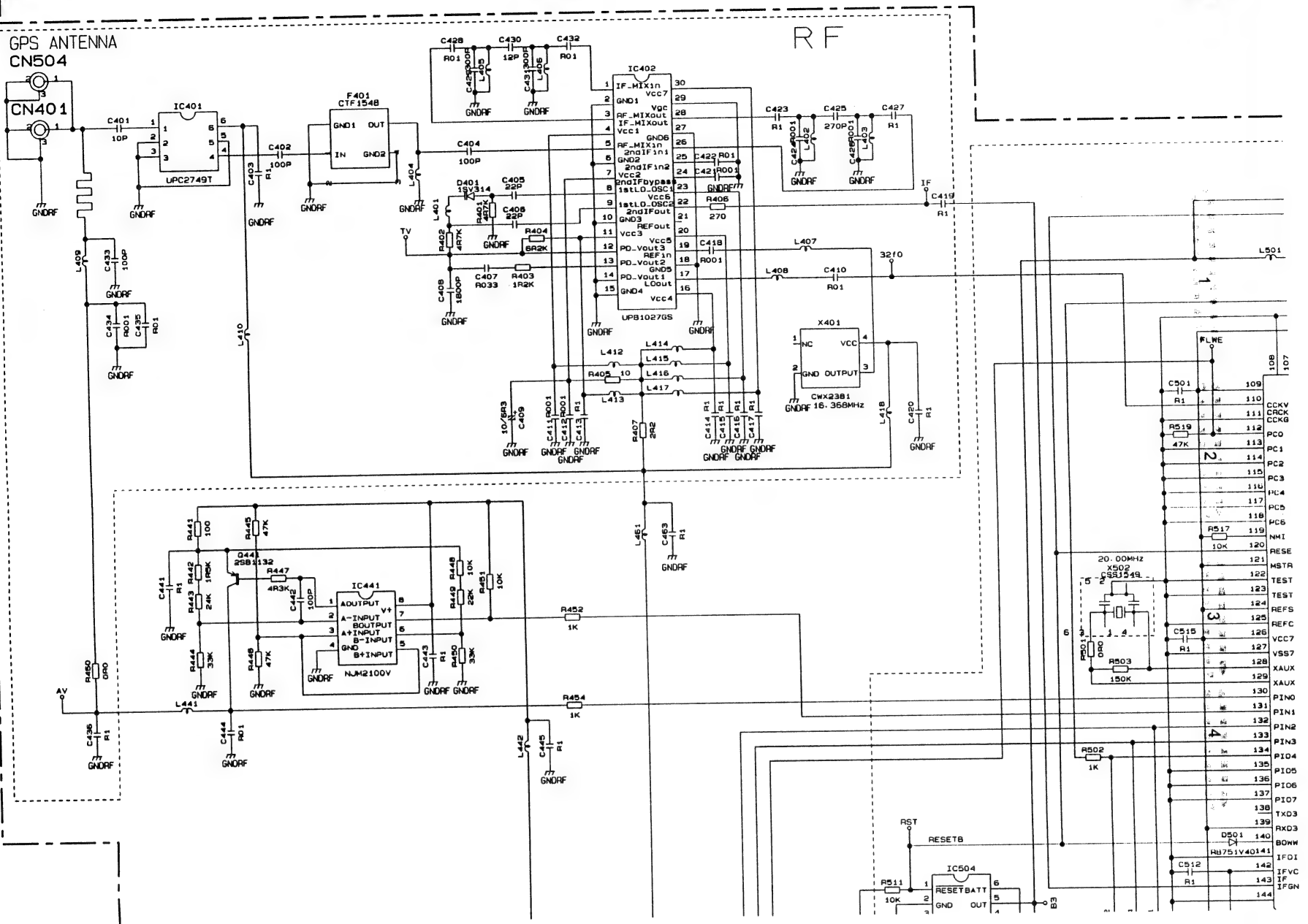
3.23 GPS UNIT(GUIDE PAGE)

P-a



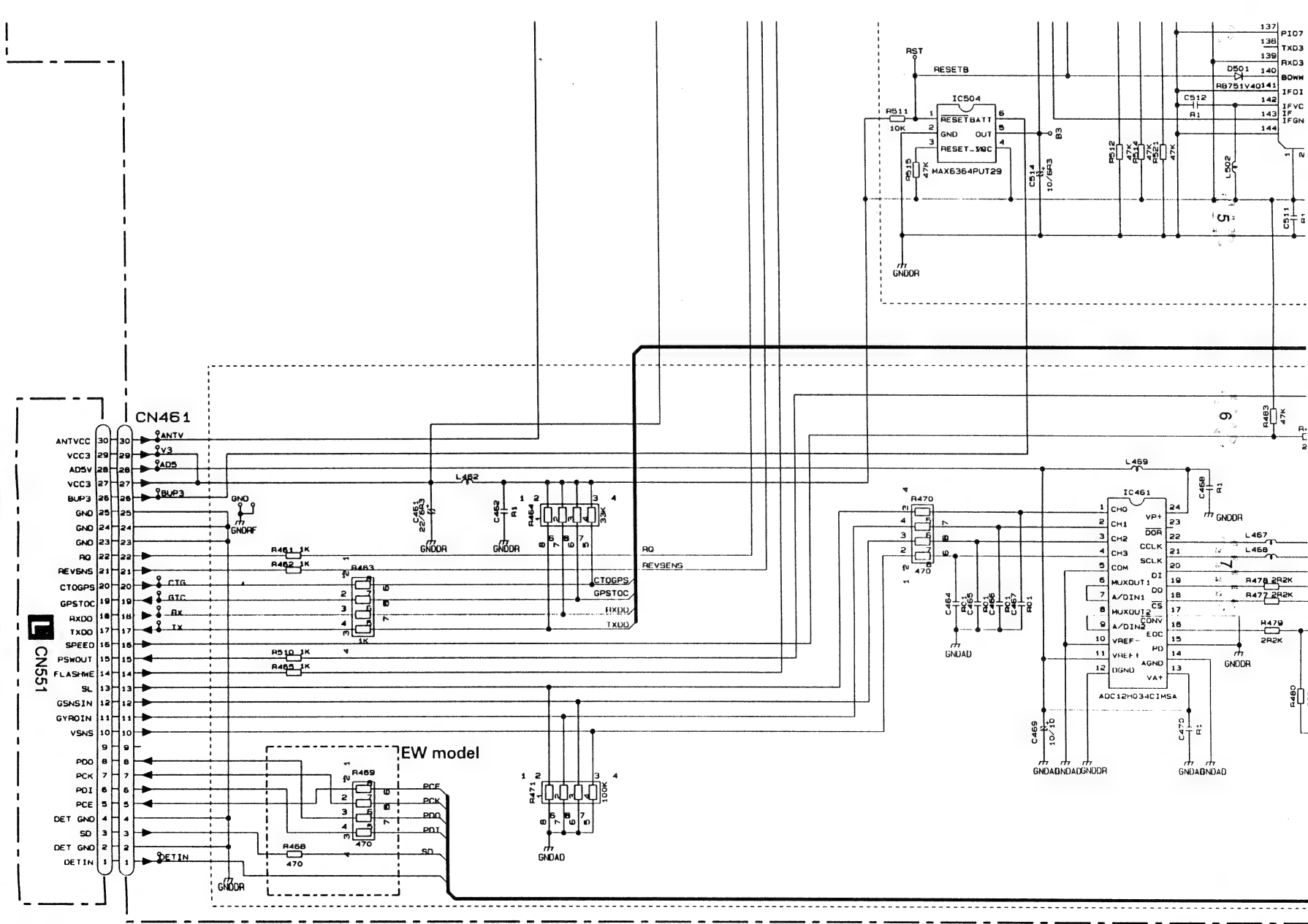
P-b

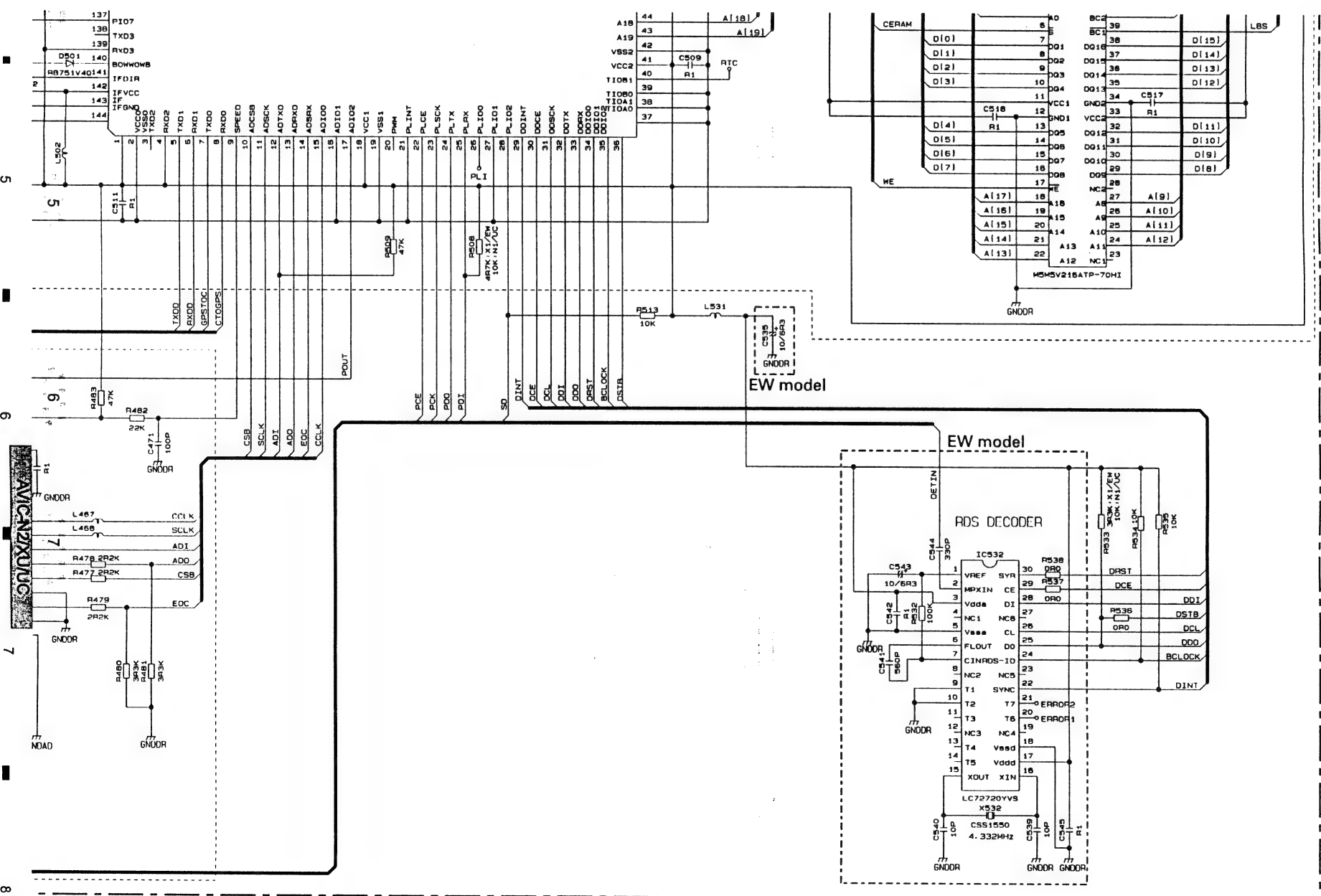
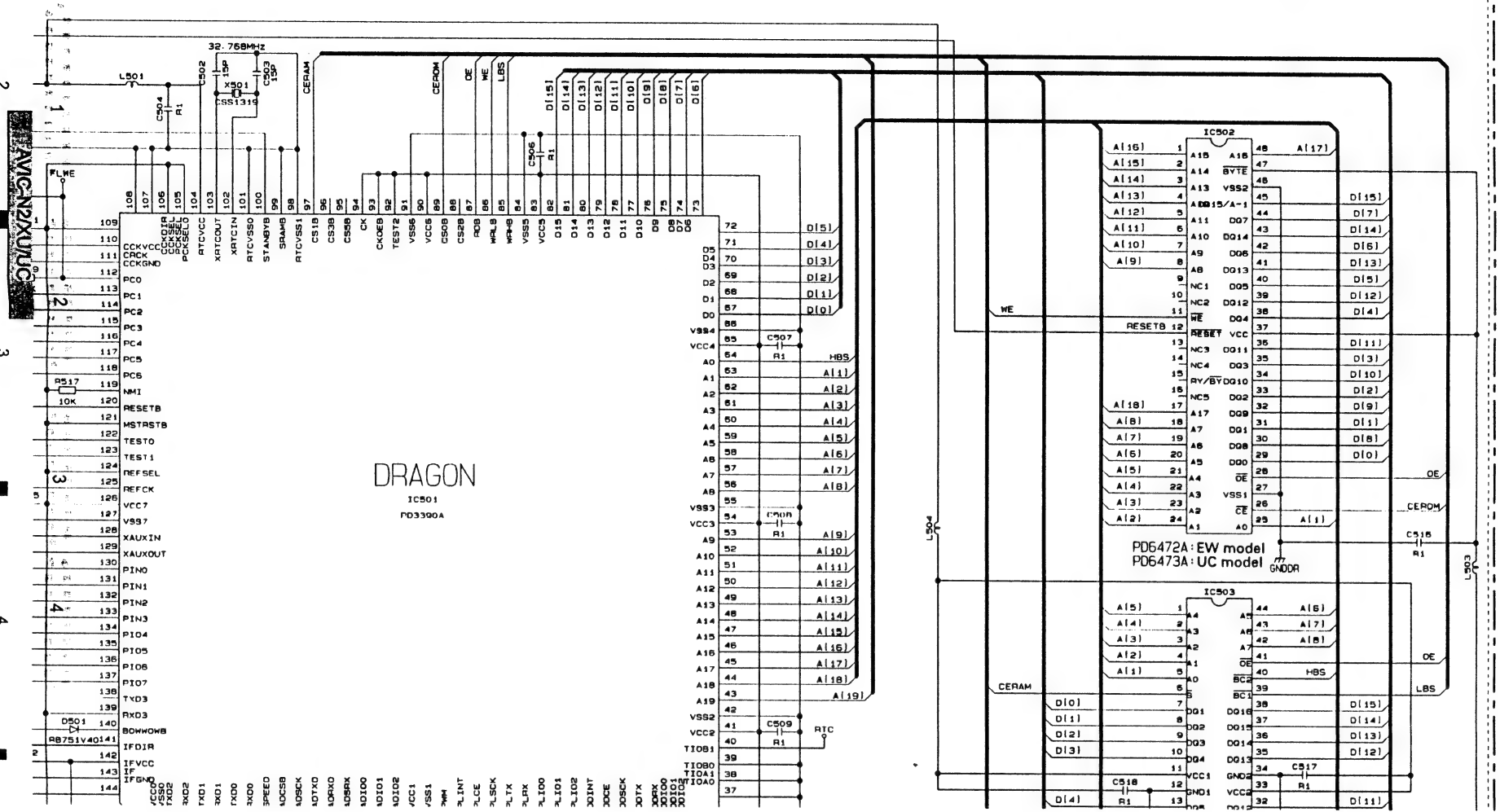
P-a



P-b

P-a





4. PCB CONNECTION DIAGRAM

1. The parts mounted on this PCB include all necessary parts for several destination.

2. Viewpoint of PCB diagrams

Connector Capacitor

SIDE A

P.C.Board	Chip Part
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

SIDE A

SIDE B

FAN MOTOR

CN1611

CN1401

A CC UNIT

SIDE A

A

23

FRONT

AVIC-N2/XU/UC

A

A CC UNIT

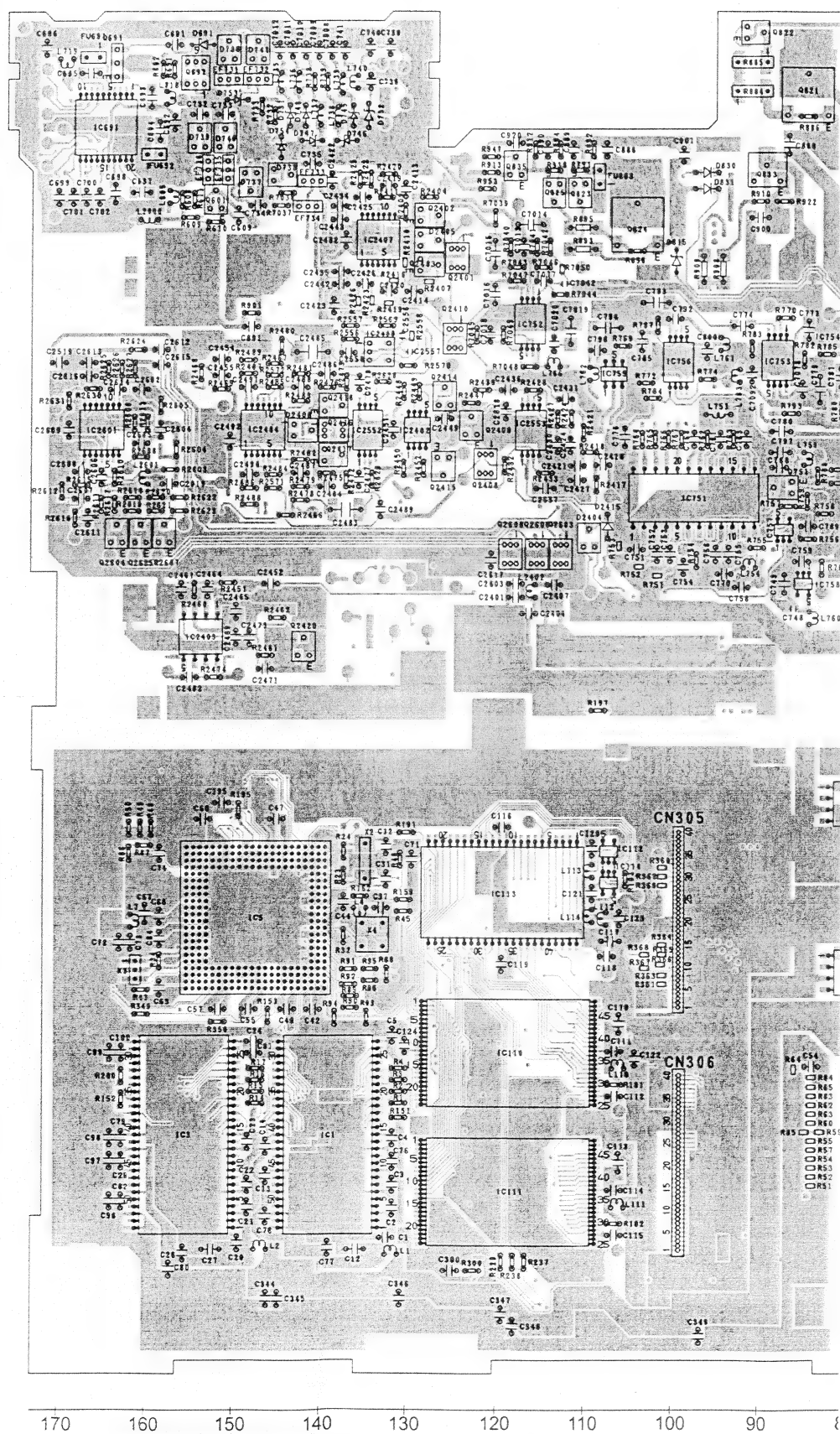
B

C

D

E

F



SIDE B

A

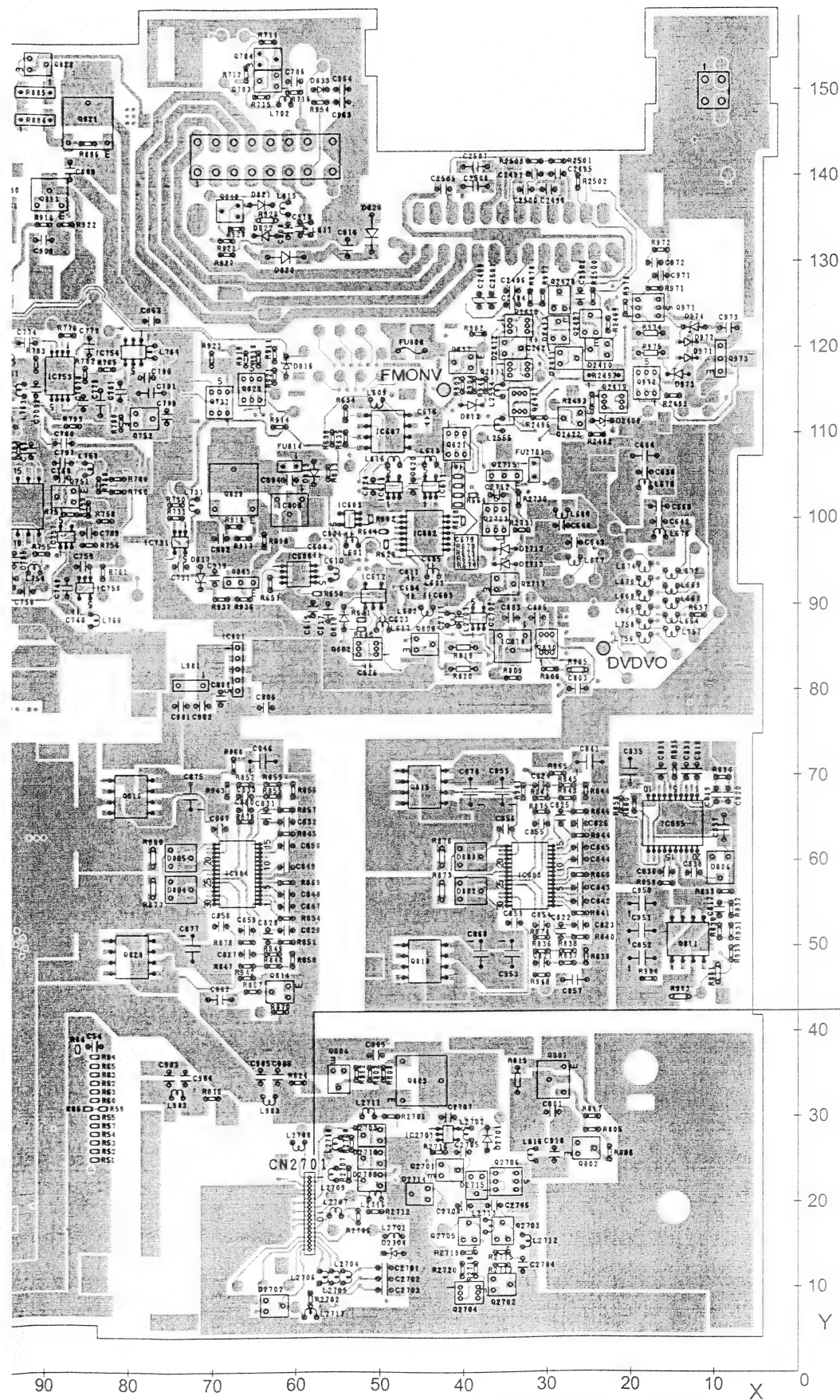
B

C

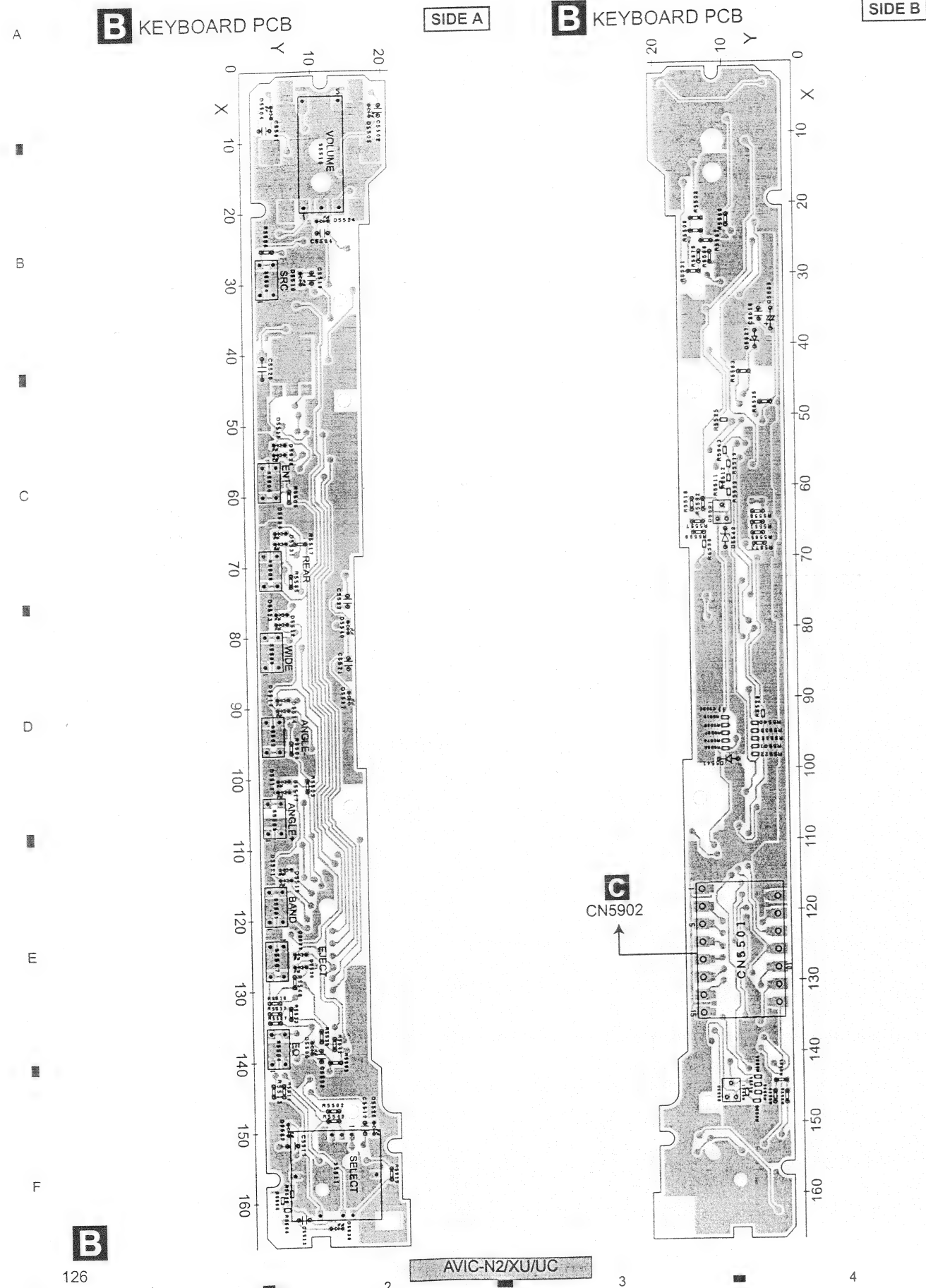
D

E

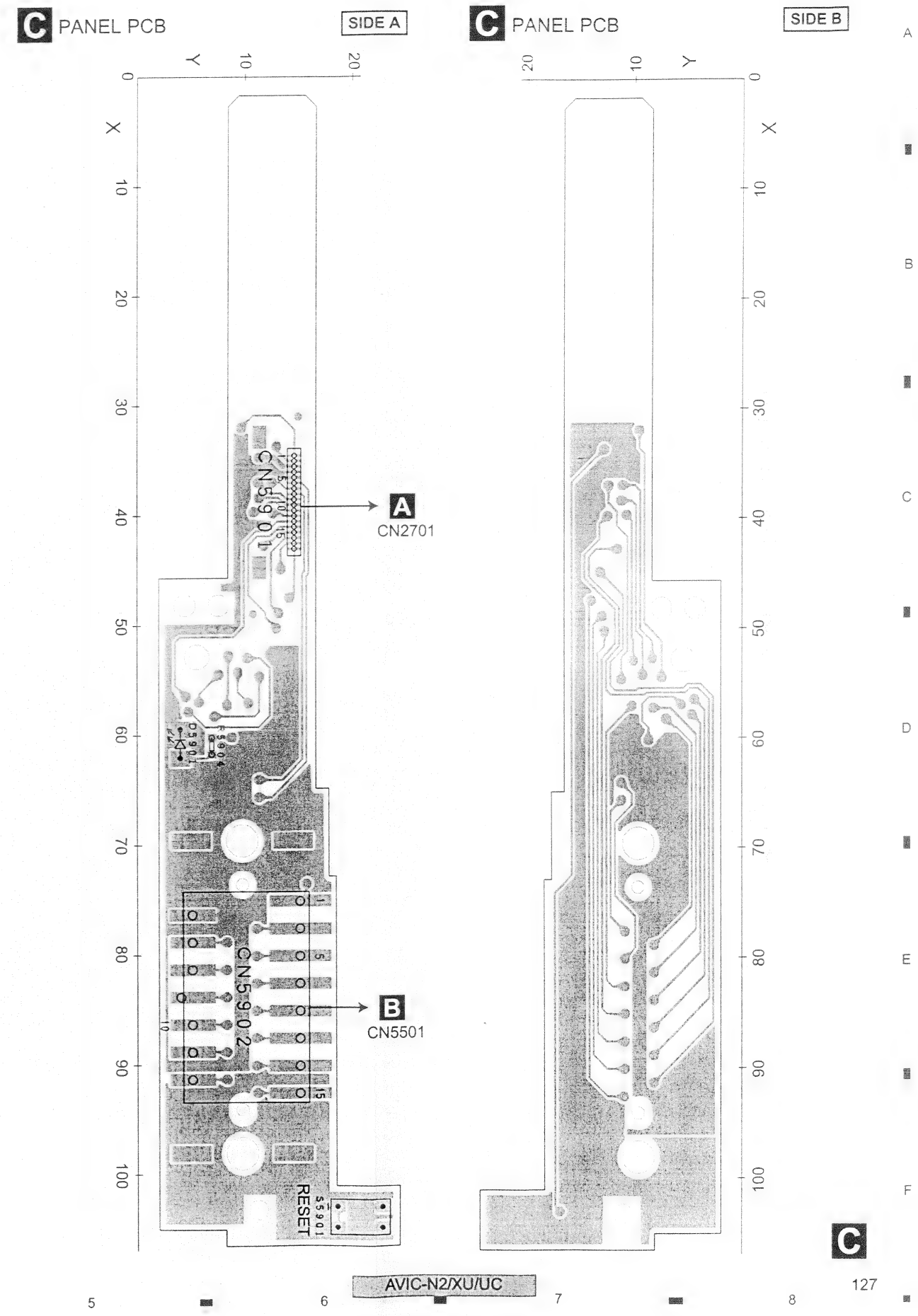
F



4.2 KEYBOARD PCB



4.3 PANEL PCB

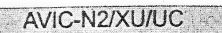


128



3

4

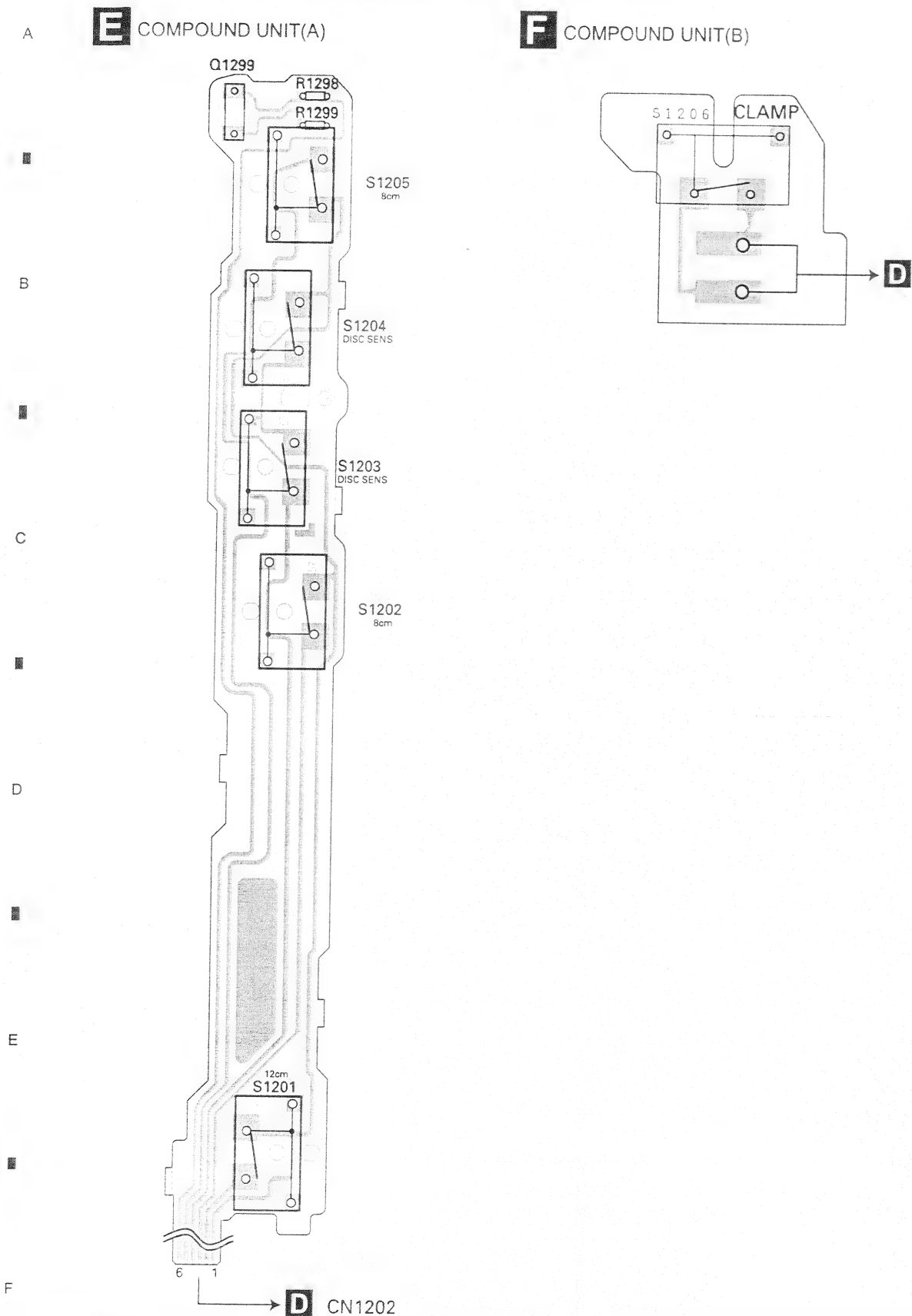


A CN607

A CN607

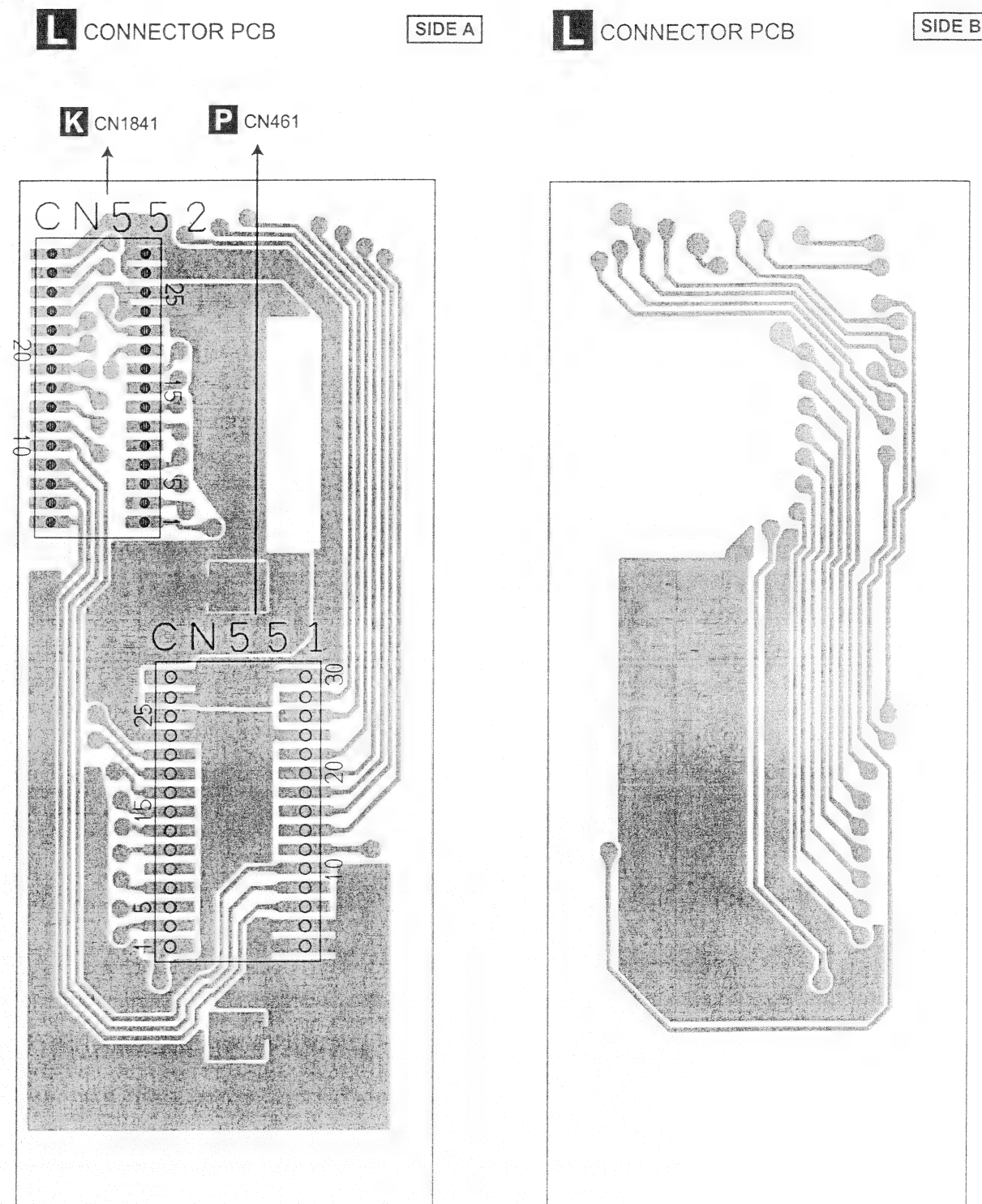
129

4.5 COMPOUND UNIT(A) AND COMPOUND UNIT(B)



E F

4.6 CONNECTOR PCB

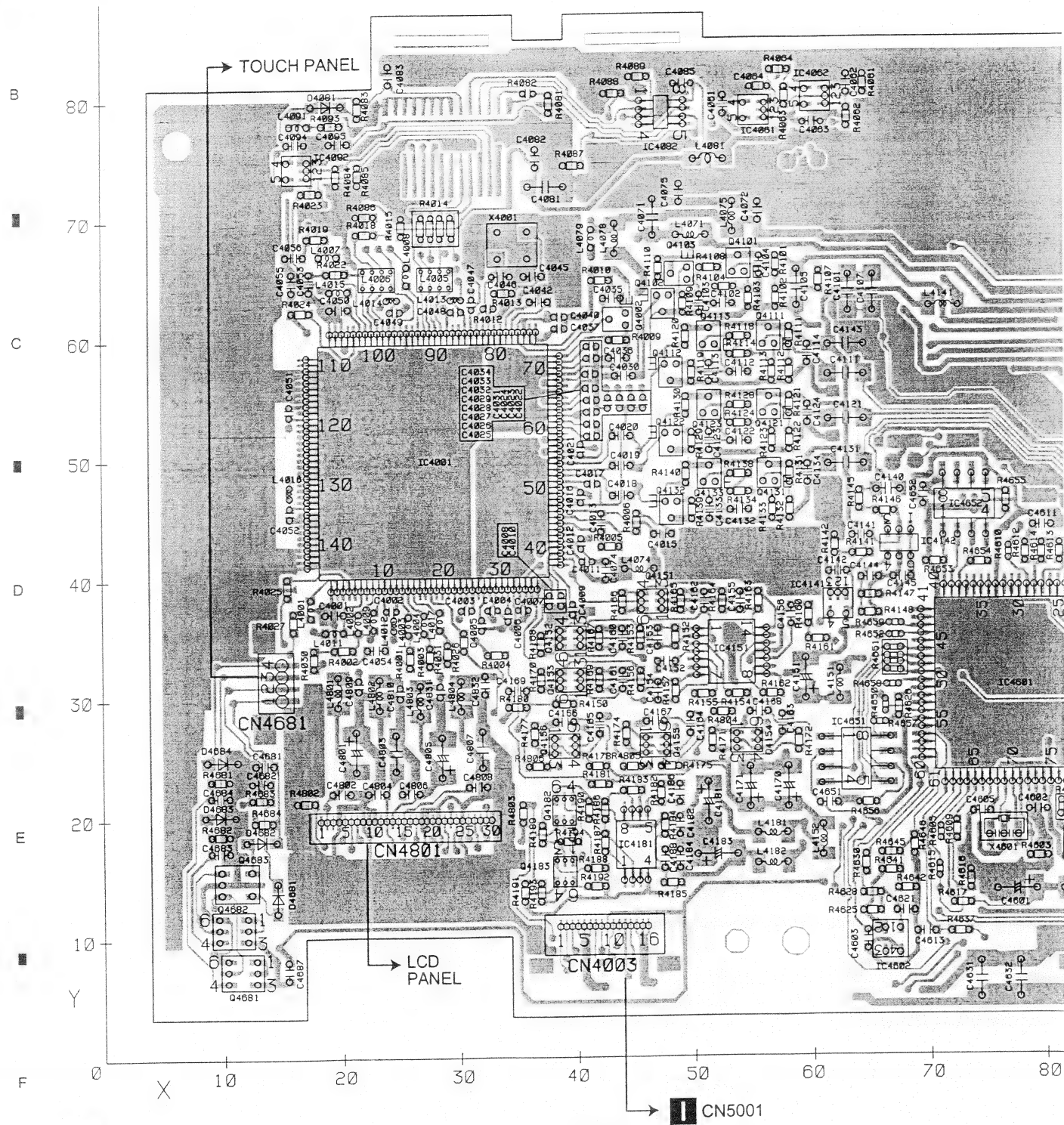


L

4.7 MONITOR PCB

G MONITOR PCB

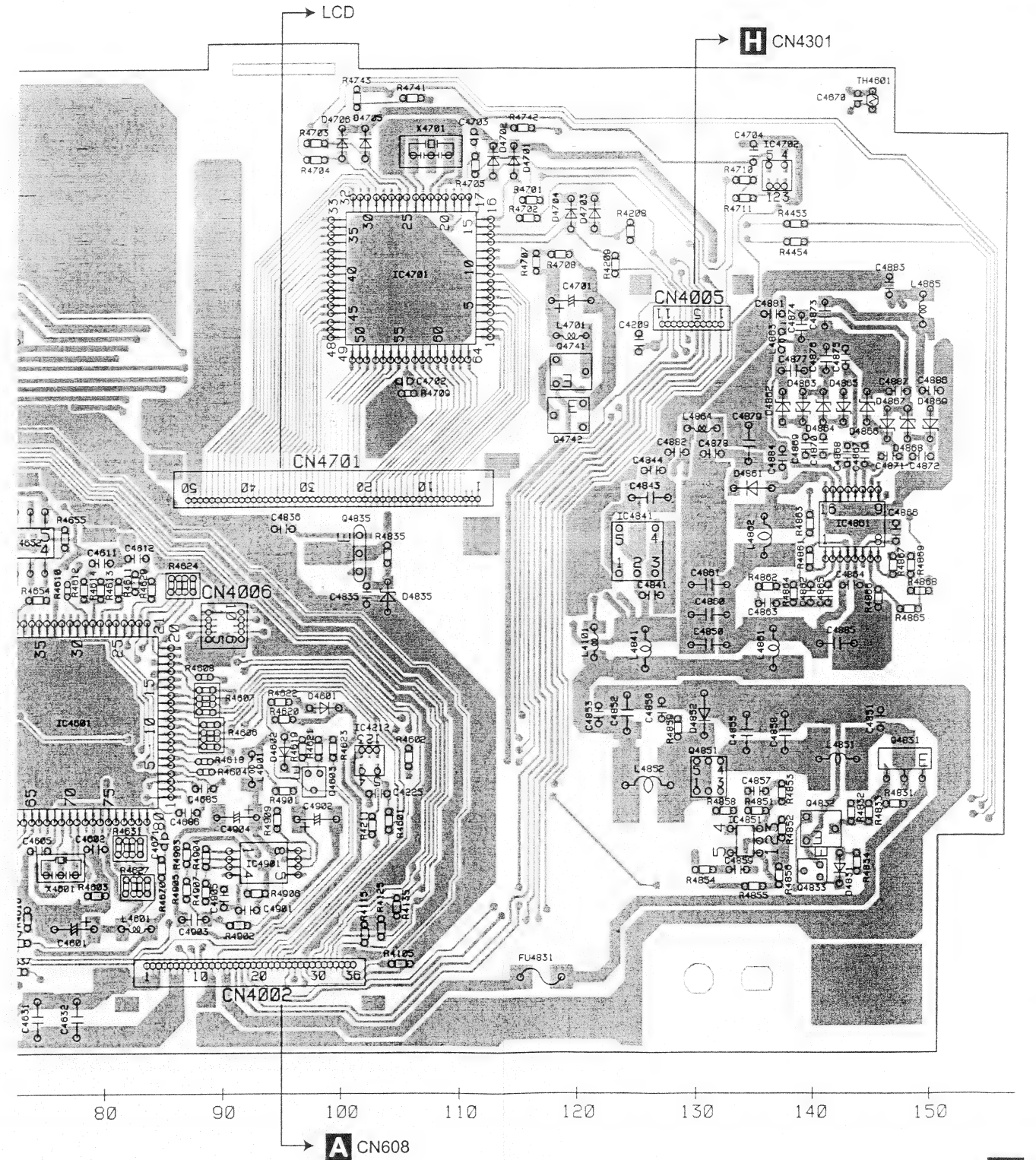
SIDE A



134

AVIC-N2/XU/UC

I CN5001



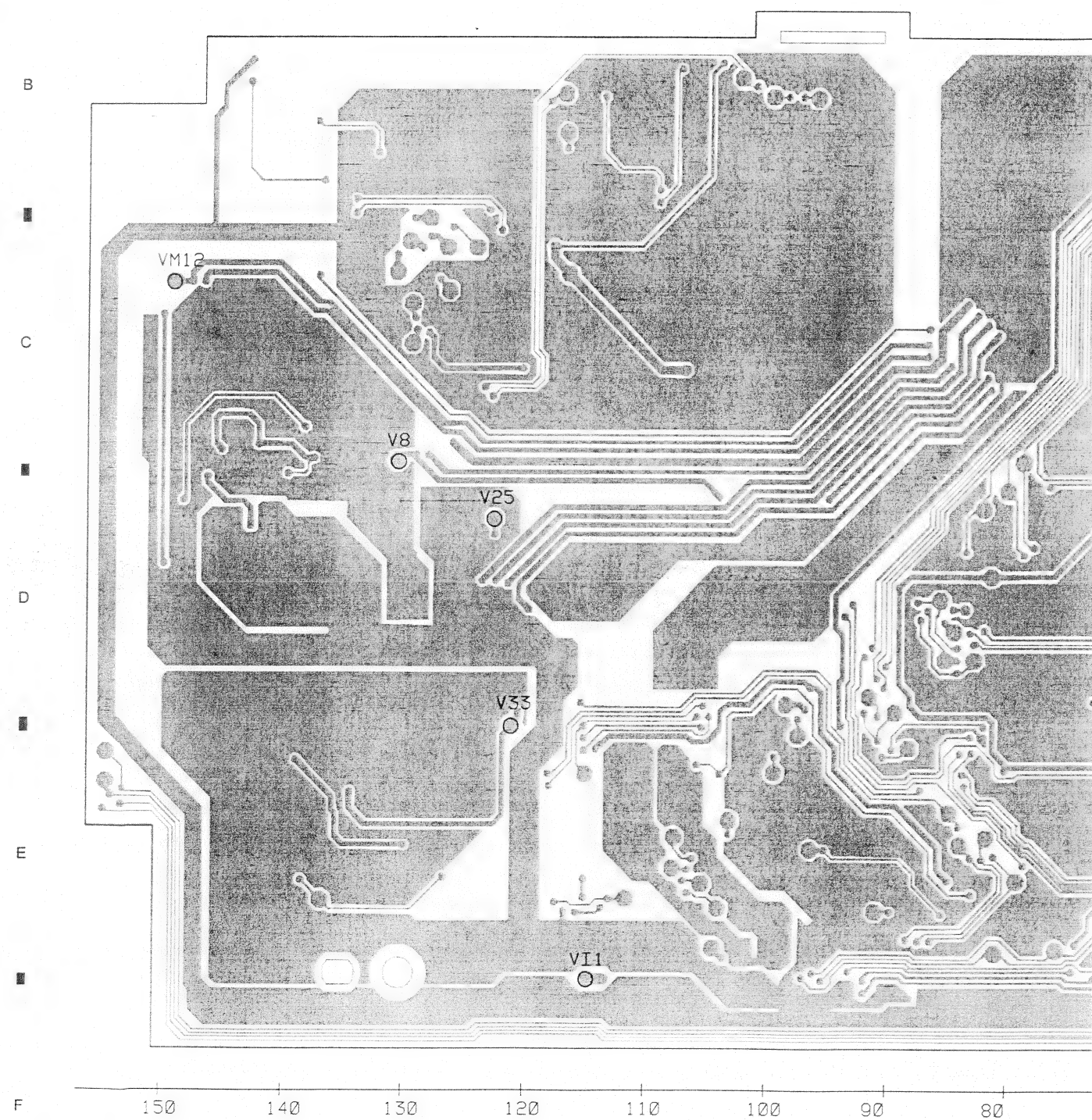
A CN608

AVIC-N2/XU/UC

G

35

G MONITOR PCB

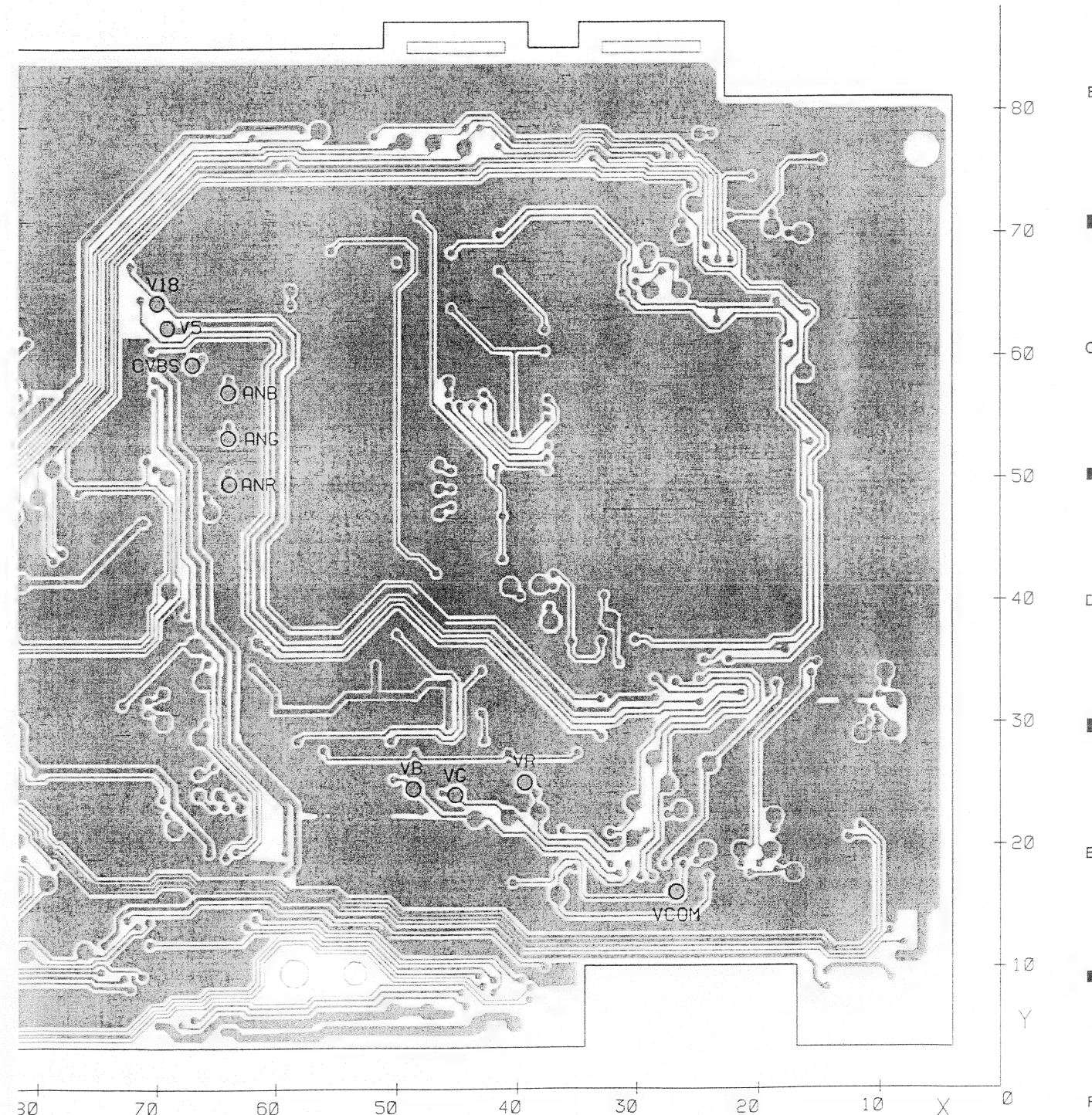


G

136

AVIC-N2/XU/UC

SIDE B

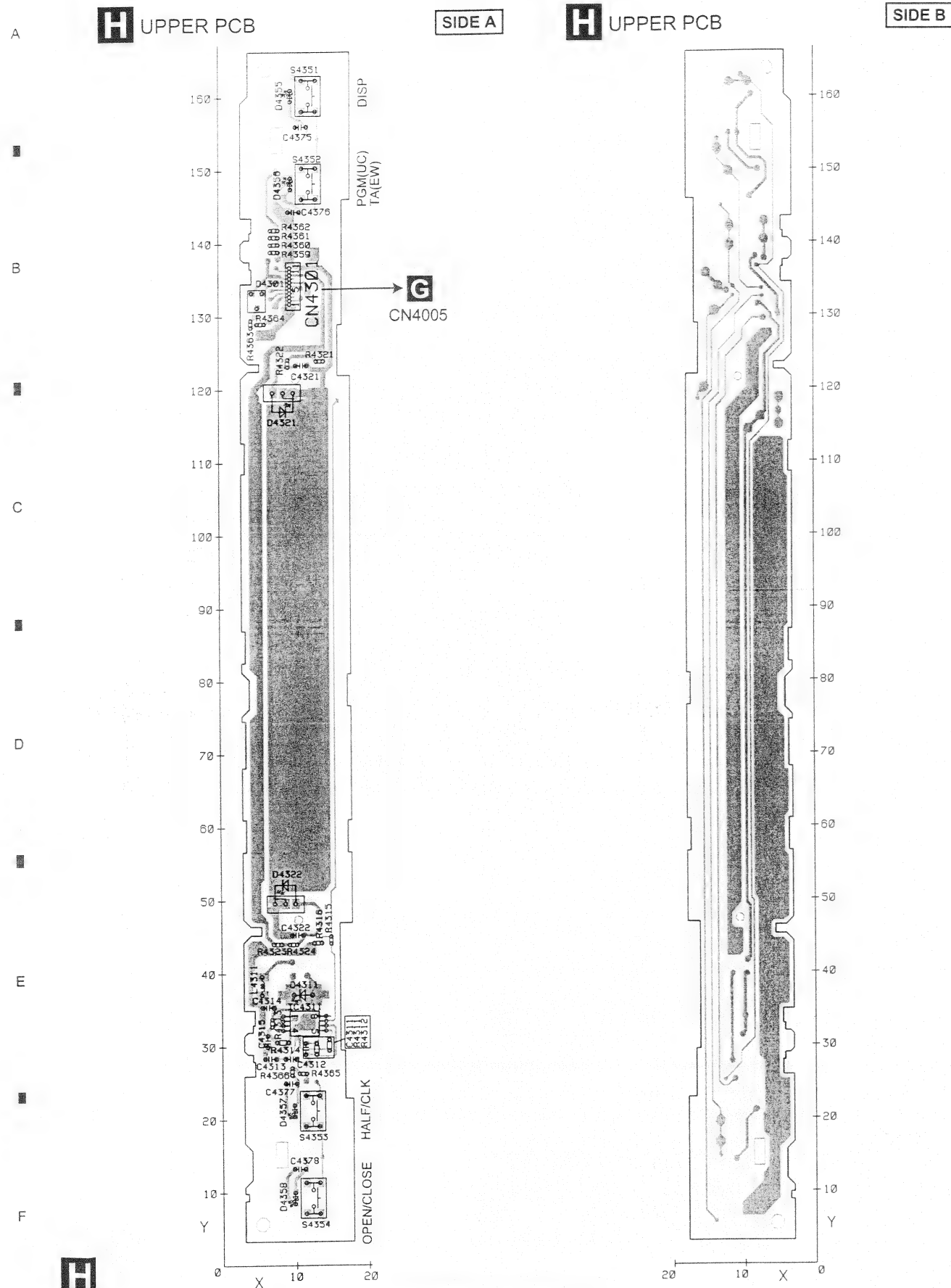


G

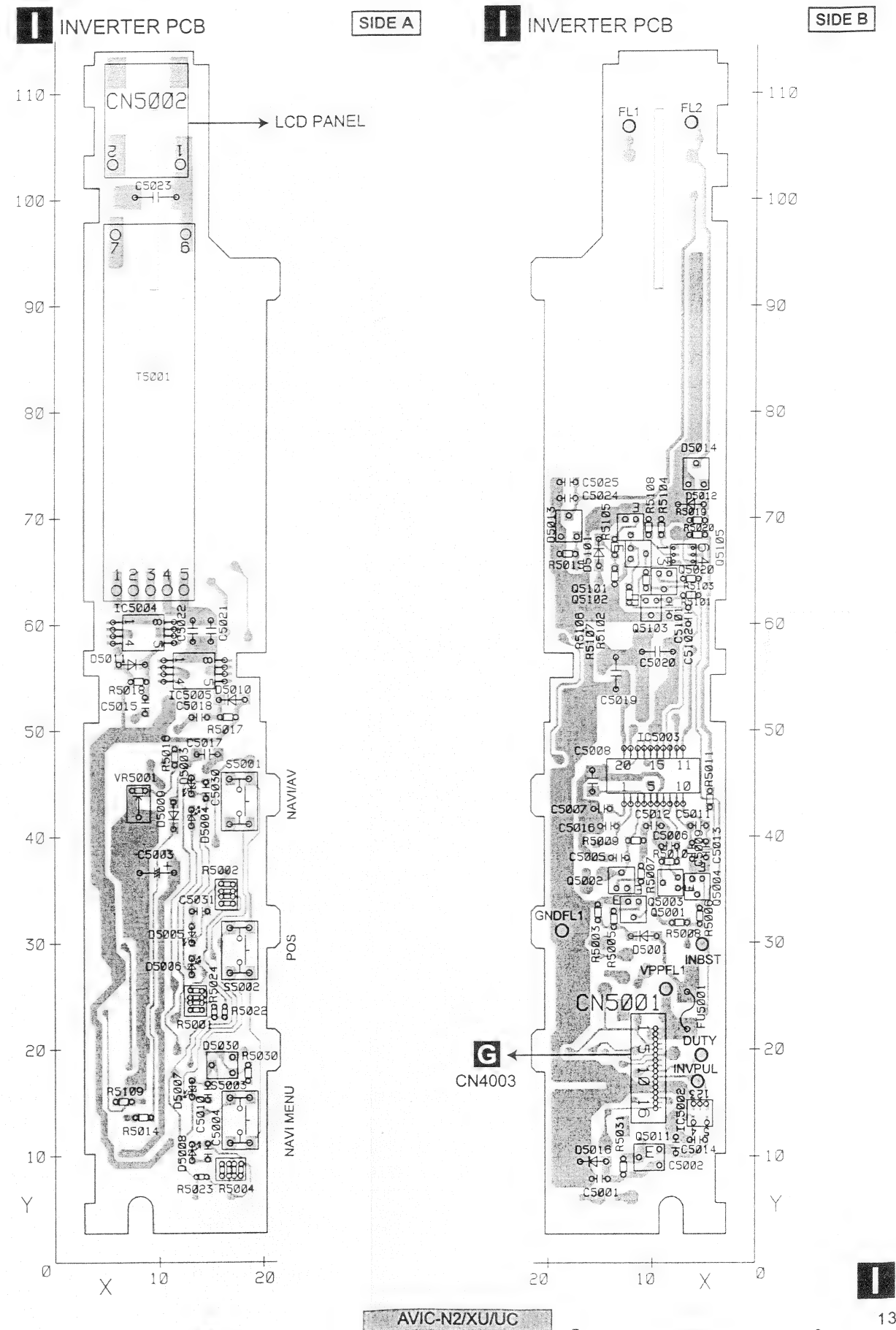
137

AVIC-N2/XU/UC

4.8 UPPER PCB



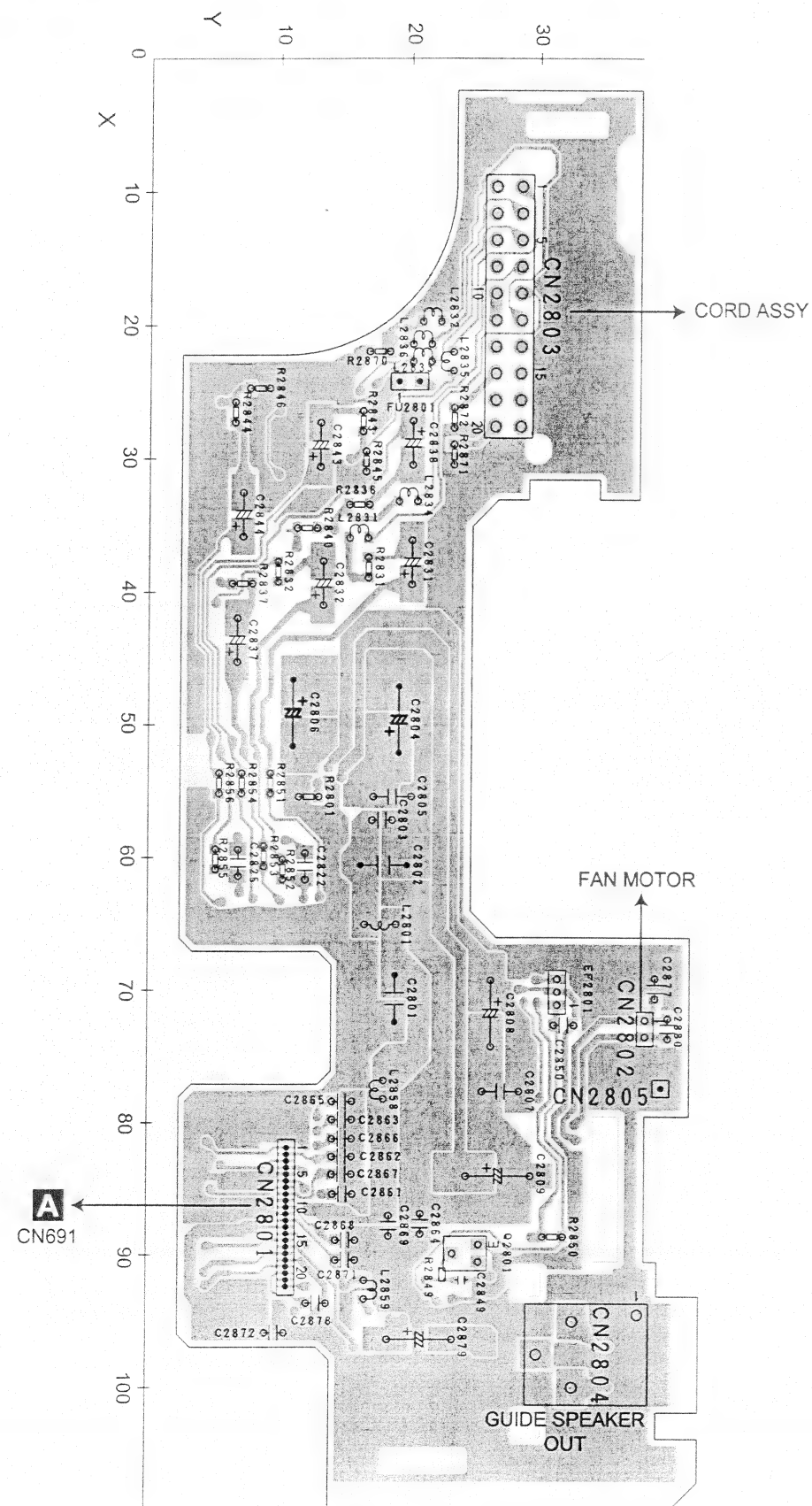
4.9 INVERTER PCB



4.10 RELAY PCB

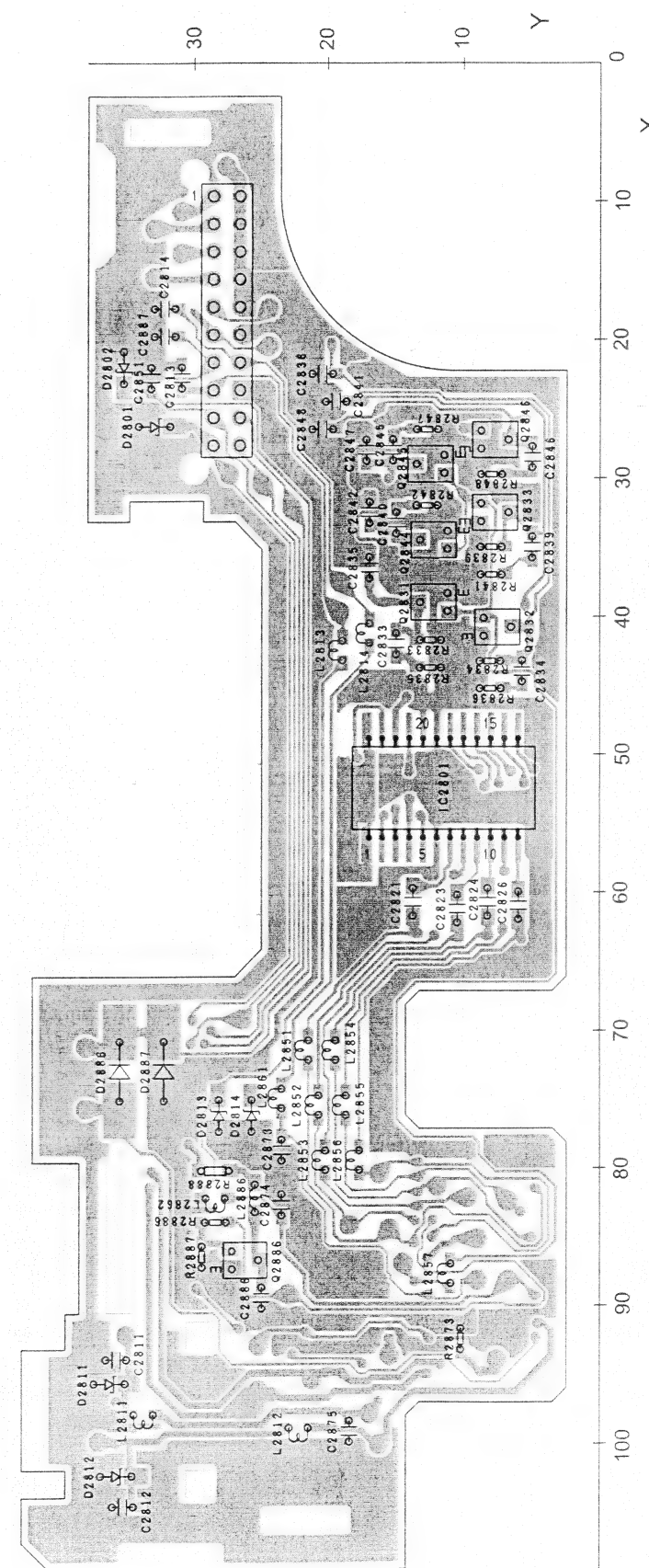
J RELAY PCB

SIDE A

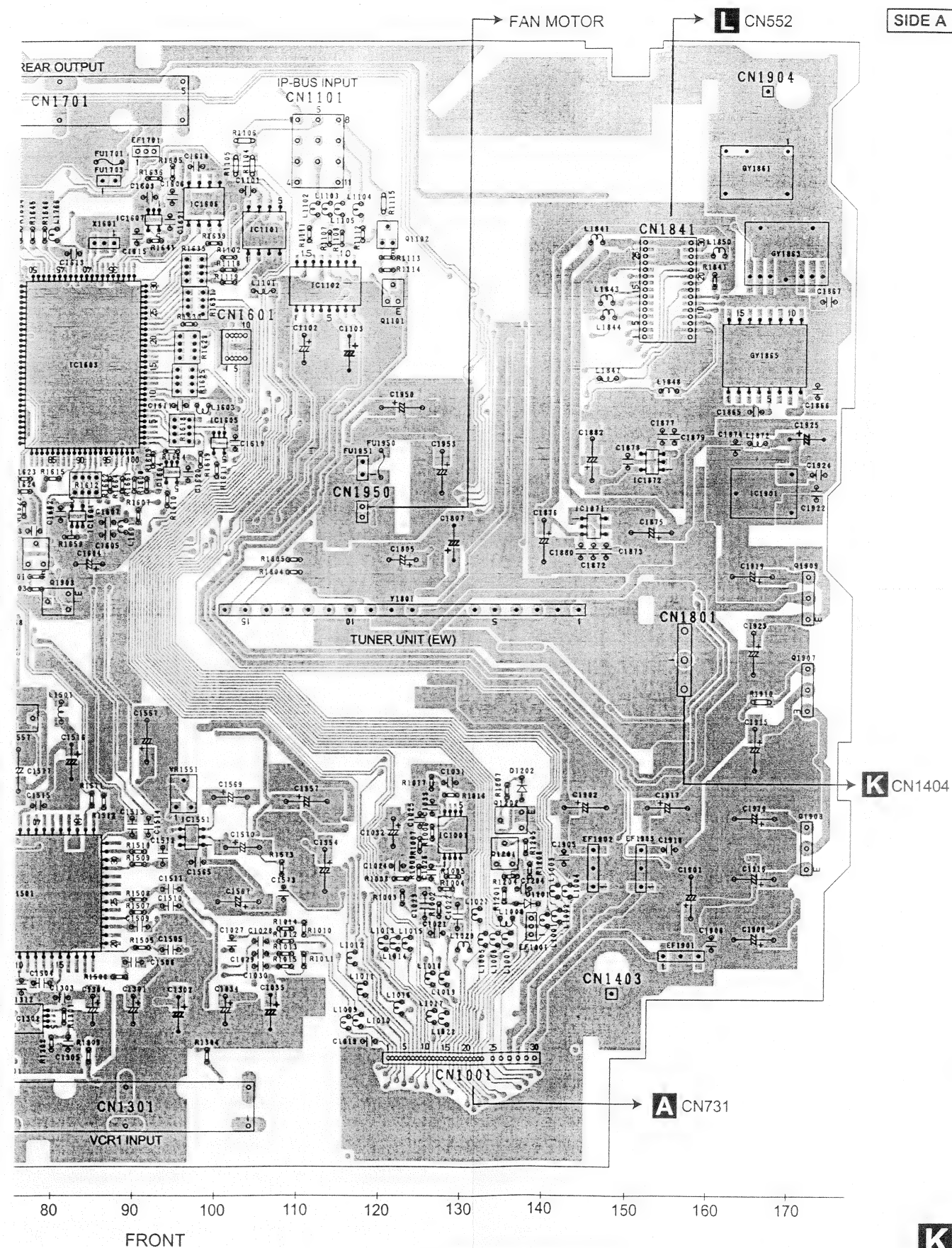
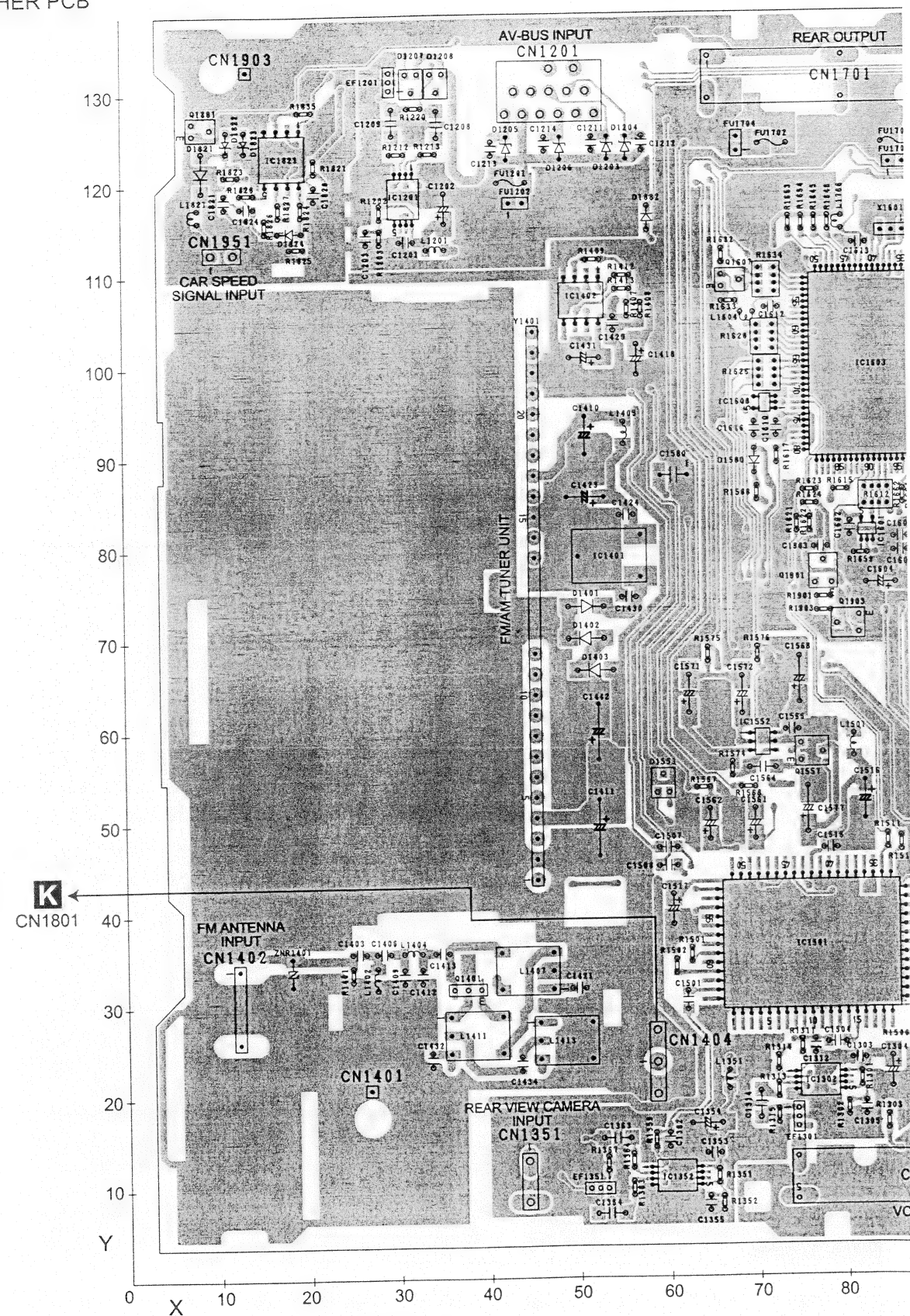


J RELAY PCB

SIDE B



K MOTHER PCB



A

K MOTHER PCB

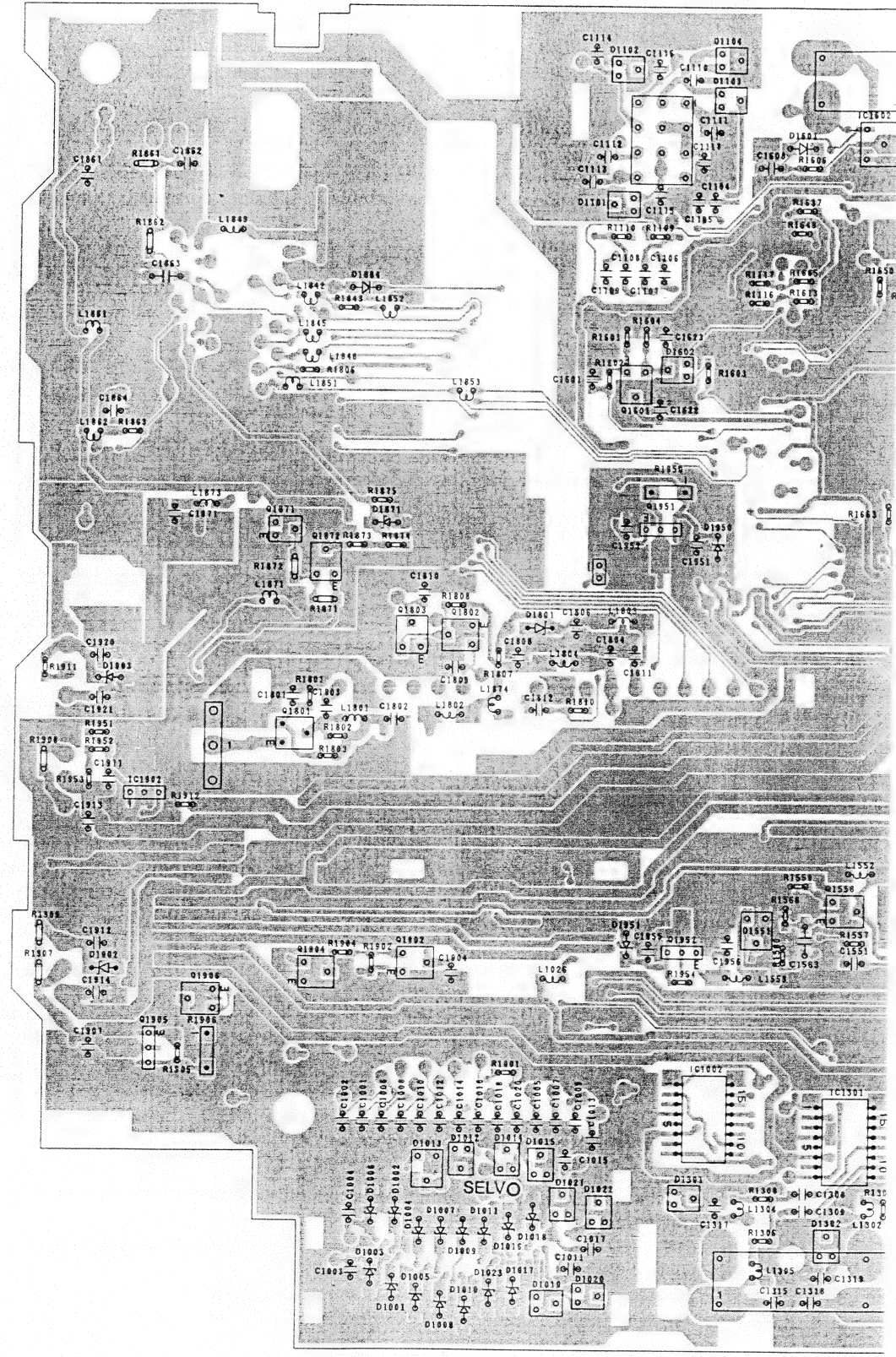
B

C

D

E

F



170 160 150 140 130 120 110 100 90

K

SIDE B

A

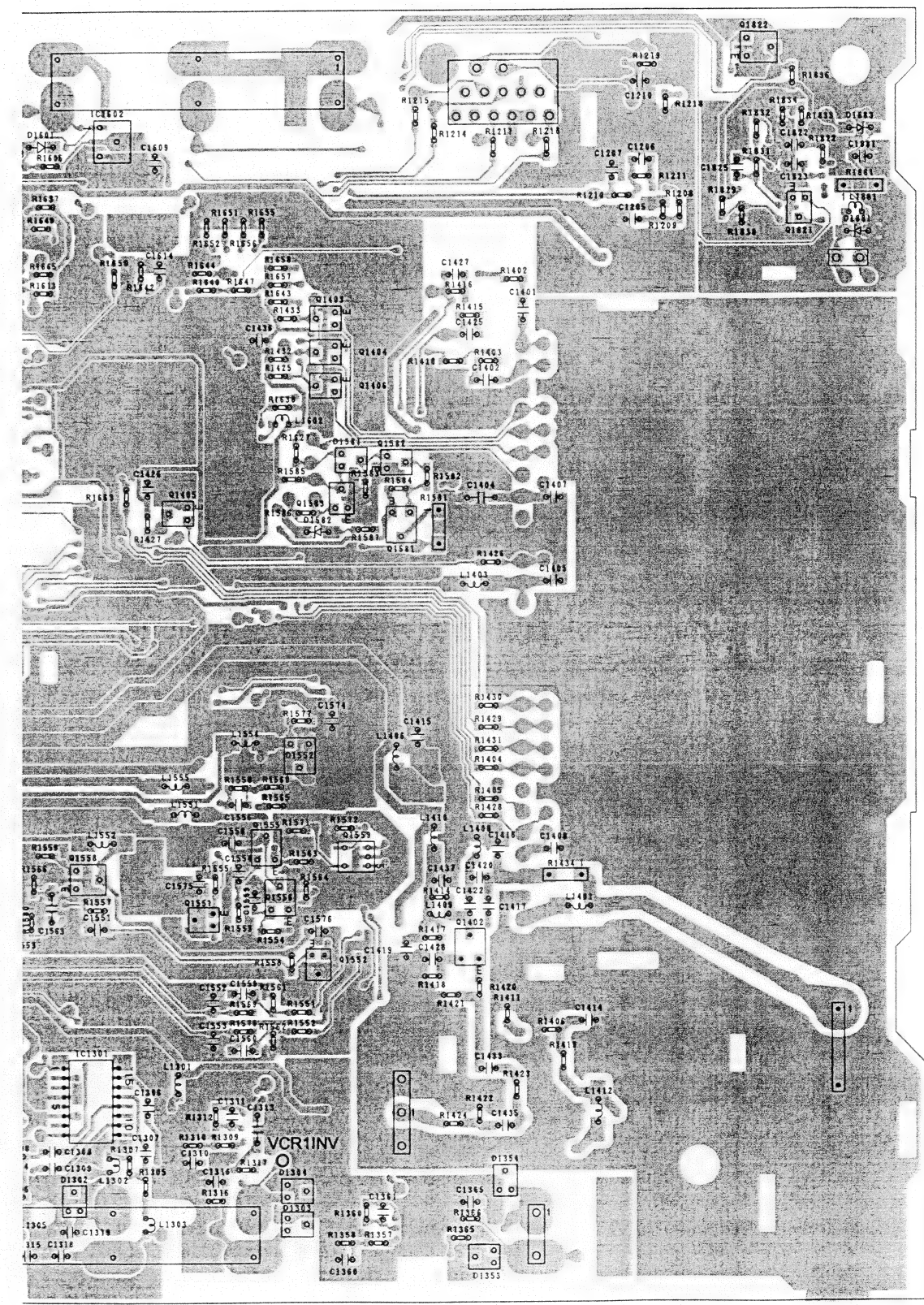
B

C

D

E

F



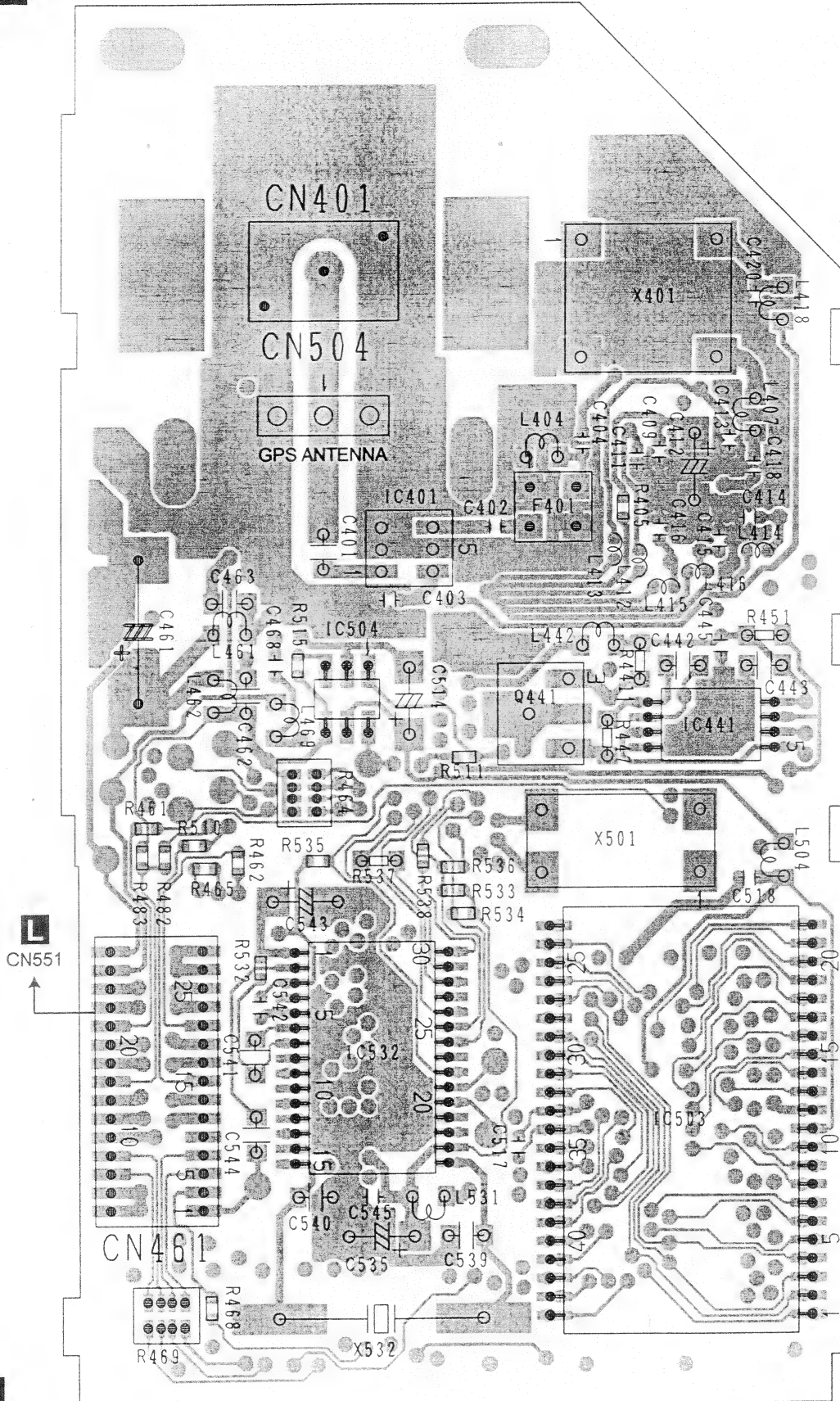
0 90 80 70 60 50 40 30 20 10 X 0

K

4.12 GPS UNIT

P GPS UNIT

SIDE A



IC.Q

IC401

IC504
Q441
IC441

IC532

IC503

AVIC-N2/XU/UC

4.13 MAIN UNIT

A

M MAIN UNIT

SIDE A

B

C

D

E

F

IC. Q

IC3804

IC3801
Q3804

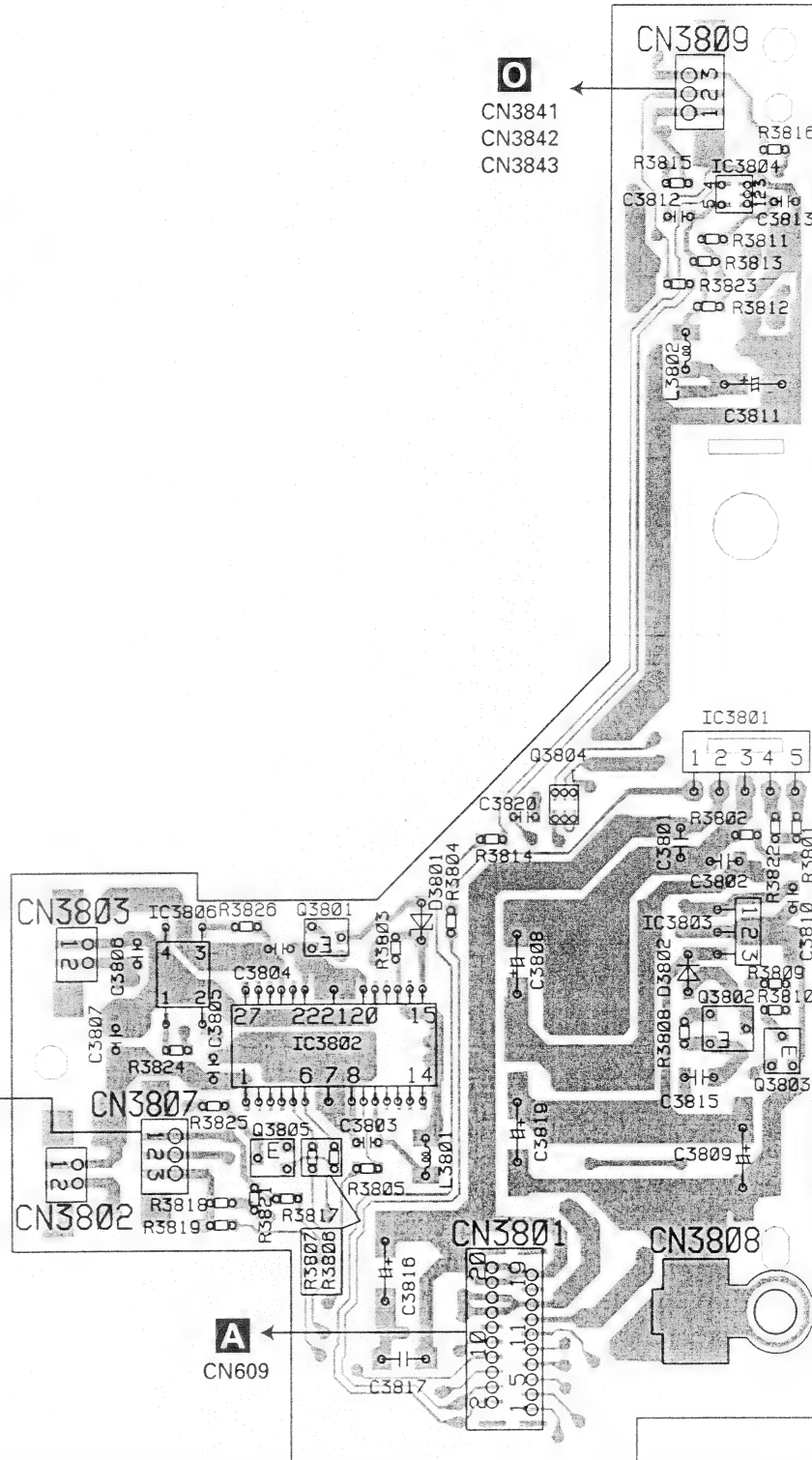
Q3801
IC3803
IC3806

Q3802
IC3802
Q3803

N ←
CN3831 Q3805
CN3832
CN3833

O ←
CN3841
CN3842
CN3843

A ←
CN609

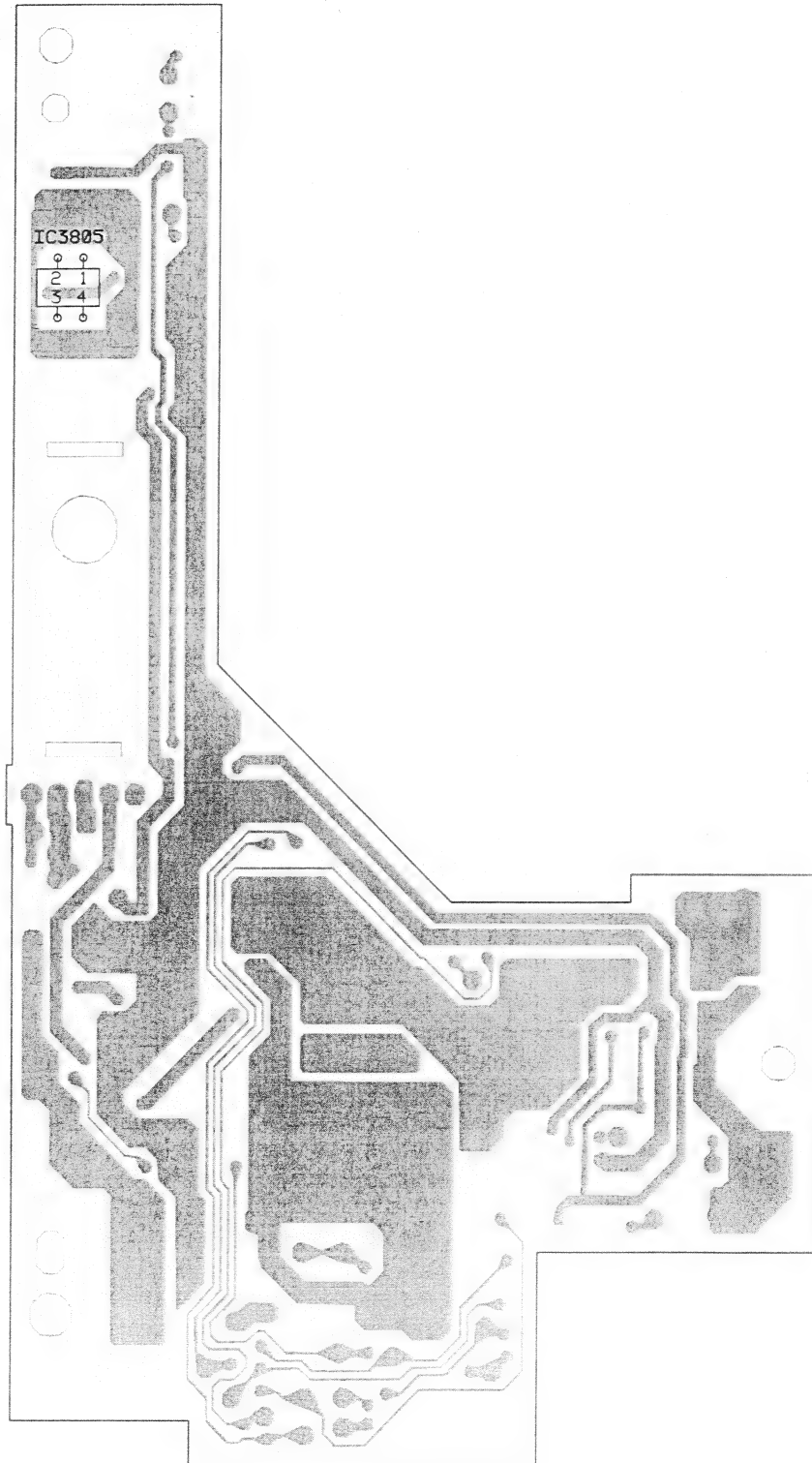


M MAIN UNIT

SIDE B

IC, Q

IC3805

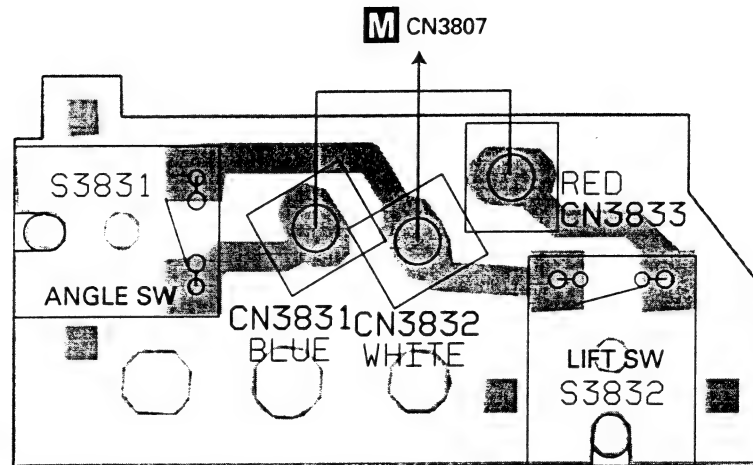


4.14 SW UNIT AND VOLUME UNIT

A

N SW UNIT

B

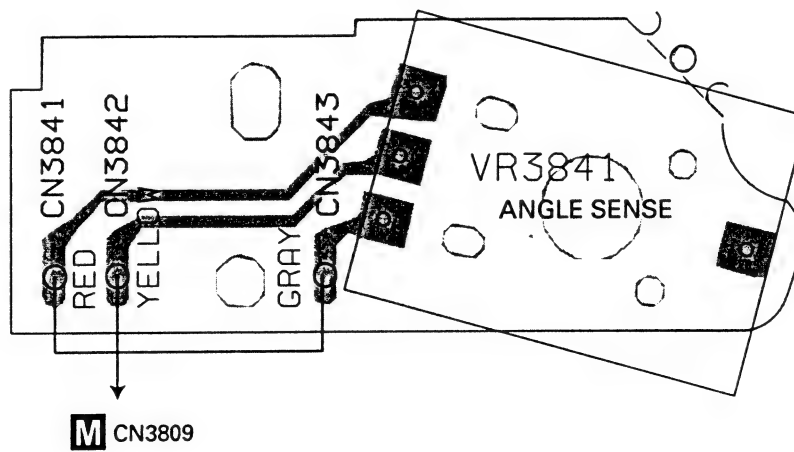


C

D

O VOLUME UNIT

E



F

NO

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○○○○○J, RS1/○○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
IC 608 (B,60,94) IC	TC7WT125FU	IC 755 (B,107,116) IC	NUM2561F1
IC 611 (B,44,104) IC	TC7S04FU	IC 756 (B,100,117) IC	NUM2235V
IC 612 (B,51,91) IC	S-80840CNMC-B8Z	IC 757 (B,87,96) IC	TC7SET08FUS1
IC 613 (B,48,104) IC	TC7SH00FUS1	IC 758 (B,85,92) IC	TC7SZ08FU
IC 691 (B,165,143) IC	UPD4721GSS1	IC 801 (B,62,83) IC	PQ018E2012P
IC 751 (B,98,102) IC	CXA1645M	IC 803 (B,32,58) IC	TPS5102IDBT
IC 752 (B,117,121) IC	NUM2137V	IC 804 (B,67,59) IC	TPS5102IDBT
IC 753 (B,88,117) IC	NUM2235V	IC 805 (B,15,64) IC	TPS5103IDB
IC 754 (B,79,120) IC	NUM2561F1	IC 806 (A,74,92) IC	SL-2980A33MC-C6S
IC 1 (B,139,31) IC	K4S561632E-TL75	IC 807 (A,63,111) IC	TPD1018F
IC 2 (A,142,51) IC	UPD705103GM-180S1	IC 808 (B,61,101) IC	S-812C52AJA-C3G
IC 3 (B,156,31) IC	HY57V561620CLT-H	IC 810 (B,34,85) IC	S-812C56AJA-C3K
IC 4 (A,158,22) IC	TC7SZ08FU	IC 2401 (A,136,107) IC	PML009A
IC 5 (B,147,55) IC	PD6336C	IC 2402 (B,129,109) IC	TC7W66FU
IC 101 (A,136,18) IC	TC74LCX08FTS1	IC 2403 (B,154,86) IC	TDA7052BT
IC 102 (A,137,12) IC	TC7SH04FUS1	IC 2404 (B,147,109) IC	NUM2058V
IC 103 (A,135,28) IC	TC74LCX245FTS1	IC 2405 (A,34,137) IC	PAL007A
IC 104 (A,144,28) IC	TC74LCX245FTS1	IC 2407 (B,134,130) IC	NUM3403AV
IC 105 (A,152,28) IC	TC74LCX245FTS1	IC 2408 (B,134,118) IC	NUM2107F
IC 106 (A,161,28) IC	TC74LCX245FTS1	IC 2551 (A,7,145) IC	TC7WT125FU
IC 107 (A,163,38) IC	TC74LCX541FTS1	IC 2552 (B,135,109) IC	NUM2068V
IC 108 (A,163,46) IC	TC74LCX541FTS1	IC 2553 (B,116,109) IC	NUM2068V
IC 109 (A,163,55) IC	TC74LCX541FTS1	IC 2801 (B,165,109) IC	NUM3403AV
IC 110 (B,119,40) IC (UC)	PEH005A	IC 2701 (B,42,28) IC	TC7SH08FUS1
(B,119,40) IC (EW)	PEH003A	IC 2702 (B,38,88) IC	TC7SH14FUS1
IC 111 (B,119,24) IC (UC)	PEH006A	Q 201 (A,126,11) Transistor	UMD2N
(B,119,24) IC (EW)	PEH004A	Q 301 (A,151,22) Transistor	DTC114EU
IC 112 (B,107,62) IC	TC7SH00FUS1	Q 601 (B,152,135) Transistor	2SC4081
IC 113 (B,119,58) IC	M5M5V216ATP-70HI	Q 602 (B,51,85) Transistor	UMD2N
IC 114 (B,107,59) IC	TC7SH08FUS1	Q 621 (B,41,109) Transistor	IMD2A
IC 201 (A,105,25) IC	MB86291APFVS-G-DL	Q 691 (B,162,150) Transistor	2SD1767
IC 301 (A,145,19) IC	M51957BFP	Q 692 (B,155,149) Transistor	IMD3A
IC 302 (A,142,11) IC	TC7SH08FUS1		
IC 304 (A,110,53) IC	AK4351VT		
IC 305 (A,98,63) IC	AK5381VT		
IC 309 (A,122,49) IC	TC7SH08FUS1		
IC 601 (A,46,99) IC	PD5937A		
IC 602 (B,45,98) IC	TC74VHCT08AFTS1		
IC 603 (B,53,100) IC	TC7SH08FUS1		
IC 604 (A,126,88) IC	TC7SH08FUS1		
IC 605 (A,131,89) IC	TC7SH08FUS1		

Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
Q 704 (B,63,154) Transistor	2SA1576	Q 2606 (B,116,96) Transistor	UMD2N
Q 731 (B,69,114) Transistor	IMD3A	Q 2607 (B,158,98) Transistor	DTC323TU
Q 751 (B,87,103) Transistor	2SC4081	Q 2608 (B,119,96) Transistor	UMD2N
Q 752 (B,78,112) Transistor	2SC4081	Q 2610 (B,33,123) Transistor	UMD2N
Q 754 (A,77,106) Transistor	2SC4081	Q 2611 (B,33,117) Transistor	UMD2N
Q 801 (B,30,34) Transistor	2SB1260	Q 2701 (B,42,24) Transistor	DTC114TU
Q 802 (B,25,26) Transistor	DTC114EU	Q 2702 (B,35,10) Transistor	DTC144EU
Q 803 (B,43,34) Transistor	2SA1834F5	Q 2703 (B,35,17) Transistor	2SA1577
Q 804 (B,55,35) Transistor	DTC114EU	Q 2704 (B,39,9) Transistor	UMH1N
Q 805 (A,122,137) FET	RSC030P03	Q 2705 (B,39,17) Transistor	2SA1577
Q 806 (A,119,134) Transistor	DTC114EU	Q 2706 (B,35,22) Transistor	IMD2A
Q 807 (A,36,81) Transistor	2SB1260	Q 2707 (A,36,11) Transistor	DTC144EU
Q 808 (B,45,85) Transistor	DTC114EU	Q 2708 (A,36,18) Transistor	2SA1577
Q 809 (A,89,50) Transistor	2SA1797	Q 2709 (A,39,11) Transistor (EW)	DTC144EU
Q 810 (A,92,57) Transistor	DTC114EU	Q 2710 (A,39,18) Transistor (EW)	2SA1577
Q 811 (B,13,51) FET	RK4936	Q 2711 (A,42,10) Transistor (EW)	UMH1N
Q 814 (B,62,45) Transistor	DTC114EU	Q 2712 (A,42,18) Transistor (EW)	2SA1577
Q 815 (B,45,69) FET	RK4936	Q 2713 (B,36,100) Transistor	IMD2A
Q 816 (B,80,68) FET	RK4936	Q 2714 (A,42,25) Transistor	2SA1576
Q 819 (B,45,48) FET	RK4936	Q 2715 (B,35,107) Transistor	2SD1767
Q 820 (B,80,49) FET	RK4936	Q 2716 (A,35,25) Transistor	DTC124EU
Q 821 (B,85,149) Transistor	2SA1834F5	Q 2717 (B,35,92) Transistor	DTC114EU
Q 822 (B,91,153) Transistor	DTC114EU	D 610 (B,54,99) Diode	1SS355
Q 823 (B,111,136) Transistor	2SC4081	D 697 (B,154,152) Diode	HZU8R2(B1)
Q 824 (B,104,134) Transistor	2SB1184F5	D 692 (A,172,136) Diode	UDZS20(B)
Q 825 (B,114,136) Transistor	2SC4081	D 693 (A,172,132) Diode	UDZS20(B)
Q 828 (B,65,115) Transistor	IMX1	D 694 (A,167,136) Diode	UDZS20(B)
Q 829 (B,67,106) Transistor	2SB1184F5	D 695 (A,167,132) Diode	UDZS20(B)
Q 830 (B,30,85) Transistor	UMF23N	D 696 (A,170,136) Diode	UDZS20(B)
Q 832 (A,114,137) FET	RSC030P03	D 697 (A,170,132) Diode	UDZS20(B)
Q 835 (B,118,139) Transistor	2SC4081	D 698 (A,165,136) Diode	UDZS20(B)
Q 837 (B,40,118) Transistor	2SC4081	D 699 (A,165,132) Diode	UDZS20(B)
Q 838 (A,111,134) Transistor	DTC114EU	D 700 (A,168,136) Diode	UDZS6R8(B)
Q 839 (A,72,109) Transistor	UMD2N	D 707 (B,63,151) Diode	DAN202U
Q 840 (B,68,136) Transistor	2SA1576	D 708 (A,64,135) Diode	5KP22A
Q 843 (B,66,95) Transistor	2SD1767	D 731 (B,144,144) Diode	UDZS6R8(B)
Q 951 (A,75,95) Transistor	DTC124EU	D 732 (A,134,136) Diode	UDZS6R8(B)
Q 971 (B,18,125) Transistor	IMX2	D 733 (A,136,136) Diode	UDZS6R8(B)
Q 972 (B,18,116) Transistor	IMD3A	D 734 (A,137,136) Diode	UDZS6R8(B)
Q 973 (B,7,119) Transistor	2SD1767	D 735 (A,136,136) Diode	UDZS6R8(B)
Q 2401 (B,125,128) Transistor	UMD2N	D 736 (B,151,151) Diode	UMZ6R8N
Q 2402 (B,128,133) Transistor	DTC323TU	D 737 (B,149,137) Diode	UMZ6R8N
Q 2403 (B,128,128) Transistor	DTC323TU	D 738 (B,145,138) Diode	UMZ6R8N
Q 2406 (B,122,108) Transistor	UMD2N	D 739 (B,154,142) Diode	UMZ6R8N
Q 2409 (B,123,110) Transistor	DTC323TU	D 740 (B,151,142) Diode	UMZ6R8N
Q 2410 (B,125,119) Transistor	UMD2N	D 741 (B,148,151) Diode	UMZ6R8N
Q 2414 (B,128,113) Transistor	DTC124EU	D 742 (A,162,142) Diode	UDZS6R8(B)
Q 2415 (B,126,105) Transistor	DTC124EU	D 743 (A,162,140) Diode	UDZS6R8(B)
Q 2416 (B,139,109) Transistor	UMD2N	D 744 (A,162,138) Diode	UDZS6R8(B)
Q 2417 (B,139,106) Transistor	DTC323TU	D 745 (B,137,144) Diode	UDZS6R8(B)
Q 2418 (B,139,112) Transistor	DTC323TU	D 746 (B,138,141) Diode	UDZS6R8(B)
Q 2419 (B,22,114) Transistor	UMD2N	D 747 (B,142,141) Diode	UDZS6R8(B)
Q 2420 (B,142,85) Transistor	DTC114EU	D 748 (B,142,144) Diode	UDZS6R8(B)
Q 2421 (B,33,114) Transistor	UMD2N	D 749 (A,141,136) Diode	UDZS6R8(B)
Q 2422 (B,27,112) Transistor	2SC4081	D 750 (A,143,137) Diode	UDZS10(B)
Q 2427 (B,25,123) Transistor	DTC124EU	D 753 (B,150,146) Diode	UDZS6R8(B)
Q 2428 (B,28,128) Transistor	DTC124EU	D 754 (B,145,141) Diode	UDZS6R8(B)
Q 2603 (B,113,96) Transistor	UMD2N	D 802 (B,39,57) Diode	RB400D
Q 2604 (B,164,98) Transistor	DTC323TU	D 803 (B,39,61) Diode	RB400D
Q 2605 (B,161,98) Transistor	DTC323TU	D 804 (B,74,57) Diode	RB400D

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Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.					
D 805	(B,74,61) Diode	RB4000		L 103	(A,140,28) Inductor	CTF1557		L 645	(A,115,81) Inductor	CTF1306		L 712	(A,46,121) Inductor	CTF1629		L 646	(A,114,84) Inductor	CTF1334		L 713	(A,76,114) Inductor	CTF1306		L 647	(A,114,81) Inductor	CTF1334		L 714	(A,74,114) Inductor	CTF1306	
D 806	(B,9,59) Diode	RB4000		L 104	(A,148,27) Inductor	CTF1557		L 648	(A,112,81) Inductor	CTF1378		L 715	(A,73,122) Inductor	CTF1306		L 649	(A,110,81) Inductor	CTF1378		L 716	(A,70,113) Inductor	CTF1306		L 650	(A,109,81) Inductor	CTF1378		L 717	(A,72,114) Inductor	CTF1306	
D 807	(A,41,56) Diode	RB060L-40		L 105	(A,156,27) Inductor	CTF1557		L 647	(A,114,81) Inductor	CTF1334		L 718	(B,158,146) Inductor	CTF1410		L 651	(A,105,81) Inductor	CTF1378		L 719	(B,170,150) Inductor	CTF1334		L 652	(A,103,84) Inductor	CTF1334		L 720	(A,102,84) Inductor	CTF1306	
D 808	(A,41,60) Diode	RB060L-40		L 106	(A,165,27) Inductor	CTF1557		L 648	(A,112,81) Inductor	CTF1378		L 721	(A,36,114) Inductor	CTF1306		L 649	(A,110,81) Inductor	CTF1378		L 722	(A,36,122) Inductor	CTF1306		L 653	(A,103,81) Inductor	CTF1467		L 723	(A,22,112) Inductor	CTF1306	
D 809	(A,75,55) Diode	RB060L-40		L 107	(A,163,34) Inductor	CTF1557		L 649	(A,110,81) Inductor	CTF1378		L 724	(A,24,112) Inductor	CTF1306		L 650	(A,109,81) Inductor	CTF1378		L 725	(A,25,112) Inductor	CTF1306		L 654	(A,102,84) Inductor	CTF1306		L 726	(A,37,122) Inductor	CTF1306	
D 810	(A,75,60) Diode	RB060L-40		L 108	(A,163,42) Inductor	CTF1557		L 650	(A,109,81) Inductor	CTF1378		L 727	(A,25,121) Inductor	CTF1306		L 651	(A,105,81) Inductor	CTF1378		L 728	(A,158,139) Inductor	CTF1295		L 652	(A,103,84) Inductor	CTF1334		L 729	(A,157,141) Inductor	CTF1295	
D 812	(B,39,113) Diode	HZU6R8(B2)		L 109	(A,163,51) Inductor	CTF1557		L 651	(A,105,81) Inductor	CTF1378		L 730	(A,157,141) Inductor	CTF1295		L 652	(A,103,84) Inductor	CTF1334		L 731	(A,157,143) Inductor	CTF1295		L 653	(A,103,81) Inductor	CTF1467		L 732	(A,158,139) Inductor	CTF1295	
D 814	(A,104,138) Diode	KS926S2		L 110	(B,106,38) Inductor	CTF1556		L 652	(A,103,84) Inductor	CTF1334		L 733	(A,157,141) Inductor	CTF1295		L 653	(A,103,81) Inductor	CTF1467		L 734	(A,157,143) Inductor	CTF1295		L 654	(A,102,84) Inductor	CTF1306		L 735	(B,145,148) Inductor	CTF1295	
D 815	(B,100,128) Diode	HZU7R5(B3)		L 111	(B,106,23) Inductor	CTF1556		L 653	(A,103,81) Inductor	CTF1467		L 736	(B,143,148) Inductor	CTF1295		L 654	(A,102,84) Inductor	CTF1306		L 737	(B,141,144) Inductor	CTF1295		L 655	(A,102,84) Inductor	CTF1306		L 738	(B,139,144) Inductor	CTF1295	
D 816	(B,61,118) Diode	UDZS18(B)		L 112	(B,108,55) Inductor	CTF1556		L 654	(A,102,84) Inductor	CTF1306		L 739	(B,138,148) Inductor	CTF1295		L 655	(A,102,84) Inductor	CTF1306		L 740	(B,136,148) Inductor	CTF1410		L 656	(A,25,83) Inductor	CTF1463		L 741	(A,145,140) Inductor	CTF1295	
D 817	(B,71,93) Diode	UDZS20(B)		L 113	(B,109,60) Inductor	CTF1557		L 656	(A,25,83) Inductor	CTF1463		L 742	(A,142,140) Inductor	CTF1295		L 657	(A,25,83) Inductor	CTF1463		L 743	(A,142,140) Inductor	CTF1295		L 658	(A,26,85) Inductor	CTF1386		L 744	(A,117,81) Inductor	CTF1334	
D 818	(A,20,51) Diode	RB060L-40		L 114	(B,109,55) Inductor	CTF1557		L 661	(A,26,85) Inductor	CTF1386		L 745	(A,152,141) Inductor	CTF1334		L 662	(A,26,87) Inductor	CTF1306		L 746	(A,153,141) Inductor	CTF1334		L 663	(A,26,89) Inductor	CTF1306		L 747	(A,148,141) Inductor	CTF1334	
D 820	(B,61,131) Diode	S1G-6904G2P		L 201	(A,127,29) Inductor	CTF1556		L 662	(A,26,87) Inductor	CTF1306		L 748	(A,150,141) Inductor	CTF1334		L 663	(A,26,89) Inductor	CTF1306		L 749	(B,85,106) Inductor	CTF1334		L 664	(A,26,89) Inductor	CTF1306		L 750	(B,85,106) Inductor	CTF1334	
D 821	(B,64,137) Diode	1SS355		L 203	(A,86,10) Inductor	CTF1556		L 663	(A,26,89) Inductor	CTF1306		L 751	(B,85,106) Inductor	CTF1334		L 664	(A,26,89) Inductor	CTF1306		L 752	(B,85,106) Inductor	CTF1334		L 665	(B,18,90) Inductor	CTF1306		L 753	(B,85,106) Inductor	CTF1334	
D 822	(B,64,133) Diode	1SS355		L 204	(A,105,45) Inductor	CTF1488		L 665	(B,18,90) Inductor	CTF1306		L 754	(B,91,94) Inductor	CTF1334		L 666	(B,18,90) Inductor	CTF1306		L 755	(A,102,122) Inductor	CTF1334		L 667	(B,18,90) Inductor	CTF1306		L 756	(B,18,86) Inductor	CTF1306	
D 828	(B,51,133) Diode	S1G-6904G2P		L 205	(A,124,21) Inductor	CTF1556		L 667	(B,18,90) Inductor	CTF1306		L 757	(B,15,87) Inductor	CTF1306		L 668	(B,18,91) Inductor	CTF1334		L 758	(B,18,88) Inductor	CTF1306		L 669	(B,15,92) Inductor	CTF1306		L 759	(A,111,121) Inductor	CTF1334	
D 830	(B,96,138) Diode	RB500V-40		L 206	(A,89,45) Inductor	CTF1556		L 668	(B,18,91) Inductor	CTF1334		L 760	(B,84,88) Inductor	CTF1334		L 669	(B,18,91) Inductor	CTF1334		L 761	(B,95,119) Inductor	CTF1334		L 670	(B,18,93) Inductor	CTF1306		L 762	(B,110,116) Inductor	LCYC2R2K1608	
D 831	(B,96,136) Diode	RB500V-40		L 207	(A,95,43) Inductor	CTF1379		L 669	(B,15,92) Inductor	CTF1306		L 763	(B,92,115) Inductor	CTF1306		L 670	(B,18,93) Inductor	CTF1306		L 764	(B,77,120) Inductor	LCYC2R2K1608		L 671	(A,26,90) Inductor	CTF1306		L 765	(A,80,106) Inductor	LCYC2R2K1608	
D 832	(A,8,68) Diode	S1G-6904G2P		L 301	(A,141,19) Inductor	CTF1557		L 670	(B,18,93) Inductor	CTF1306		L 766	(B,114,116) Inductor	CTF1306		L 671	(A,26,90) Inductor	CTF1306		L 767	(A,32,106) Inductor	CTF1334		L 672	(B,15,94) Inductor	CTF1306		L 768	(A,30,106) Inductor	CTF1334	
D 833	(B,57,150) Diode	1SS400		L 302	(A,145,13) Inductor	CTF1557		L 671	(A,26,90) Inductor	CTF1306		L 769	(A,78,122) Inductor	CTF1306		L 672	(B,15,94) Inductor	CTF1306		L 770	(A,30,106) Inductor	CTF1334		L 673	(A,26,92) Inductor	CTF1306		L 771	(A,131,136) Inductor	CTF1453	
D 971	(B,13,119) Diode	RB751V40		L 305	(A,103,54) Inductor	CTF1556		L 672	(B,15,94) Inductor	CTF1306		L 772	(A,131,81) Inductor	CTF1334		L 673	(A,26,92) Inductor	CTF1306		L 773	(A,102,81) Inductor	CTF1306		L 674	(B,18,95) Inductor	CTF1306		L 774	(A,102,81) Inductor	CTF1306	
D 972	(B,13,121) Diode	RB751V40		L 306	(A,90,61) Inductor	CTF1556		L 673	(A,26,92) Inductor	CTF1306		L 775	(A,102,81) Inductor	CTF1306		L 674	(B,18,95) Inductor	CTF1306		L 776	(A,100,84) Inductor	CTF1306		L 675	(A,26,94) Inductor	CTF1463		L 777	(A,100,81) Inductor	CTF1306	
D 973	(B,14,117) Diode	HZU8R2(B1)		L 307	(A,90,65) Inductor	CTF1556		L 674	(B,18,95) Inductor	CTF1306		L 778	(A,100,81) Inductor	CTF1306		L 675	(A,26,94) Inductor	CTF1463		L 779	(A,100,81) Inductor	CTF1306		L 676	(B,16,98) Inductor	CTF1410		L 780	(A,12,54) Inductor	CTH1254	
D 974	(B,12,122) Diode	UDZ12(B)		L 308	(A,110,59) Inductor	CTF1334		L 675	(A,26,94) Inductor	CTF1463		L 781	(A,100,81) Inductor	CTF1306		L 676	(B,16,98) Inductor	CTF1410		L 782	(A,100,81) Inductor	CTF1306		L 677	(B,27,98) Inductor	CTF1463		L 783	(A,16,68) Inductor	CTH1257	
D 2404	(B,110,97) Diode	DAN202U		L 312	(A,121,52) Inductor	CTF1410		L 676	(B,16,98) Inductor	CTF1410		L 784	(A,100,81) Inductor	CTF1306		L 677	(B,27,98) Inductor	CTF1463		L 785	(A,100,81) Inductor	CTF1306		L 678	(B,18,104) Inductor	CTF1463		L 786	(A,41,49) Inductor	CTH1254	
D 2405	(B,128,130) Diode	DAP202U		L 601	(B,53,97) Inductor	CTF1334		L 677	(B,27,98) Inductor	CTF1463		L 786	(A,100,81) Inductor	CTF1306		L 678	(B,18,104) Inductor	CTF1463		L 787	(A,41,49) Inductor	CTH1254		L 679	(A,27,107) Inductor	CTF1453		L 788	(A,41,68) Inductor	CTH1255	
D 2406	(A,134,122) Diode	1SS355		L 602	(B,44,90) Inductor	CTF1334		L 678	(B,18,104) Inductor	CTF1463		L 789	(A,41,49) Inductor	CTH1254		L 679	(A,27,107) Inductor	CTF1453		L 790	(A,41,68) Inductor	CTH1255		L 680	(B,28,101) Inductor	CTF1463		L 791	(A,41,68) Inductor	CTH1255	
D 2407	(A,134,129) Diode	UDZS4R7(B)		L 603	(B,44,93) Inductor	CTF1334		L 679	(A,27,107) Inductor	CTF1453		L 792	(A,41,68) Inductor	CTH1255		L 680	(B,28,101) Inductor	CTF1463		L 793	(A,41,68) Inductor	CTH1255		L 681	(A,42,114) Inductor	CTF1306		L 794	(A,41,68) Inductor	CTH1255	
D 2408	(B,142,109) Diode	DAP202U		L 604	(A,44,88) Inductor	CTF1334		L 680	(B,28,101) Inductor	CTF1463		L 795	(A,41,68) Inductor	CTH1255		L 681	(A,42,114) Inductor	CTF1306		L 796	(A,41,68) Inductor	CTH1255		L 682	(A,40,114) Inductor	CTF1357		L 797	(A,41,68) Inductor	CTH1255	
D 2409	(B,23,111) Diode	UDZS8R2(B)		L 605	(B,158,135) Inductor	CTF1334		L 681	(A,42,114) Inductor	CTF1306		L 798	(A,41,68) Inductor	CTH1255		L 682	(A,40,114) Inductor	CTF1357		L 799	(A,41,68) Inductor	CTH1255		L 683	(A,40,121) Inductor	CTF1357		L 800	(A,41,68) Inductor	CTH1255	
D 2410	(B,24,120) Diode	DAN202U		L 606	(A,126,91) Inductor	CTF1334		L 682	(A,40,114) Inductor	CTF1357		L 801	(A,41,68) Inductor	CTH1255		L 683	(A,40,121) Inductor	CTF1357		L 802	(A,41,68) Inductor	CTH1255		L 684	(A,39,114) Inductor	CTF1357		L 803	(A,41,68) Inductor	CTH1255	
D 2411																															

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Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
L 807	(A,89,147) Inductor	CTH1262	△FU813	(A,83,47) Fuse 2.5A	CEK1285	R 54	(B,84,28)	RS1/16SS101J	R 169	(A,125,64)	RS1/16S473J
L 808	(A,28,65) Inductor	CTH1253	△FU814	(B,61,106) Fuse 250mA	CEK1276	R 55	(B,84,30)	RS1/16SS101J	R 170	(A,111,66)	RS1/16S473J
L 809	(A,63,65) Inductor	CTH1253	△FU815	(A,136,133) Fuse 1A	CEK1280						
L 810	(A,90,136) Choke Coil 100μH	CTH1315	△FU971	(A,15,119) Fuse 375mA	CEK1277	R 57	(B,84,29)	RS1/16SS101J	R 171	(A,114,66)	RS1/16S473J
L 811	(B,58,134) Inductor	CTF1556	△FU2701	(B,31,106) Fuse 250mA	CEK1276	R 59	(B,83,31)	RS1/16SS101J	R 172	(A,112,66)	RS1/16S473J
L 812	(A,65,73) Inductor	CTF1453	EF731	(B,151,148) EMI Filter	CCG1082	R 60	(B,84,32)	RS1/16SS101J	R 174	(A,126,67)	RS1/16S473J
L 815	(B,61,136) Inductor	CTF1556	EF732	(B,148,148) EMI Filter	CCG1082	R 61	(A,60,36)	RS1/16SSOR0J	R 175	(A,126,68)	RS1/16S473J
L 816	(B,31,26) Inductor	CTF1306	EF733	(B,142,137) EMI Filter	CCG1067	R 62	(B,84,34)	RS1/16SS101J	R 176	(A,126,57)	RS1/16SOR0J
L 817	(A,40,80) Inductor	LCKBW1R0M2520	EF734	(B,142,134) EMI Filter	CCG1067	R 63	(B,84,33)	RS1/16SS101J	R 177	(A,121,66)	RS1/16S473J
L 818	(A,29,83) Inductor	LCYA220J2520	EF735	(B,151,138) EMI Filter	CCG1067	R 64	(B,86,38)	RS1/16SS101J	R 178	(A,121,67)	RS1/16S473J
L 981	(B,73,81) Inductor	CTF1453	EF736	(B,153,138) EMI Filter	CCG1067	R 65	(B,84,36)	RS1/16SS101J	R 179	(A,115,63)	RS1/16S473J
L 982	(B,74,32) Inductor	CTF1463	EF801	(A,96,137) EMI Filter	CCG1172	R 66	(A,60,41)	RS1/16SS101J	R 180	(A,149,66)	RS1/16S101J
L 983	(B,63,33) Inductor	CTF1463	EF802	(A,78,144) EMI Filter	CCG1172	R 67	(A,61,41)	RS1/16SS101J	R 181	(A,119,56)	RS1/16S473J
L 984	(A,93,79) Inductor	CTF1463	EF803	(A,80,153) EMI Filter	CCG1172	R 68	(A,62,41)	RS1/16SS101J	R 182	(A,121,56)	RS1/16S473J
L 985	(A,93,86) Inductor	CTF1463				R 69	(A,63,41)	RS1/16SS101J	R 183	(A,119,53)	RS1/16S473J
L 2402	(B,116,91) Inductor	CTF1306	RESISTORS			R 70	(A,64,41)	RS1/16SS101J	R 184	(A,119,59)	RS1/16S473J
L 2404	(A,148,105) Inductor	LCYA2R2J2520	R 1	(B,131,34)	RS1/16SOR0J	R 71	(A,65,41)	RS1/16SS101J	R 185	(A,116,63)	RS1/16S473J
L 2551	(A,12,143) Inductor	CTF1379	R 3	(B,131,37)	RS1/16SOR0J	R 72	(A,66,41)	RS1/16SS101J	R 186	(A,118,59)	RS1/16S473J
L 2554	(B,35,115) Inductor	CTF1334	R 5	(A,115,59)	RS1/16S473J	R 73	(A,67,41)	RS1/16SS101J	R 187	(A,116,59)	RS1/16S473J
L 2555	(B,35,111) Inductor	CTF1334	R 6	(A,121,63)	RS1/16S473J	R 74	(A,68,41)	RS1/16SS101J	R 188	(A,111,69)	RS1/16S473J
L 2601	(B,160,104) Inductor	CTF1334	R 7	(A,157,48)	RS1/16S220J	R 75	(A,69,41)	RS1/16SS101J	R 189	(A,112,69)	RS1/16S473J
L 2701	(B,48,16) Inductor	CTF1399	R 8	(A,120,70)	RS1/16S473J	R 76	(A,70,41)	RS1/16SS101J	R 190	(A,114,69)	RS1/16S473J
L 2702	(B,39,28) Inductor	CTF1334	R 10	(A,153,70)	RS1/16S104J	R 77	(A,71,41)	RS1/16SS101J	R 191	(B,130,65)	RS1/16S473J
L 2703	(B,42,88) Inductor	CTF1334	R 11	(A,155,70)	RAB4C473J	R 78	(A,72,41)	RS1/16SS101J	R 192	(A,118,63)	RS1/16S473J
L 2704	(B,54,11) Inductor	CTF1306	R 12	(A,145,67)	RS1/16S105J	R 79	(A,73,41)	RS1/16SS101J	R 193	(A,126,66)	RS1/16S473J
L 2705	(B,58,11) Inductor	CTF1306	R 13	(A,143,67)	RS1/16S151J	R 80	(A,74,41)	RS1/16SS101J	R 194	(A,150,68)	RS1/16S390J
L 2706	(B,57,11) Inductor	CTF1306	R 14	(B,147,34)	RS1/16SOR0J	R 81	(A,75,41)	RS1/16SS101J	R 196	(A,116,69)	RS1/16S473J
L 2707	(B,55,18) Inductor	CTF1306	R 16	(B,147,37)	RS1/16SOR0J	R 82	(A,76,41)	RS1/16SS101J	R 201	(A,124,41)	RN1/16SE1502D
L 2708	(B,60,27) Inductor	CTF1306	R 19	(A,121,68)	RS1/16S473J	R 84	(B,84,37)	RS1/16SS562J	R 202	(A,124,40)	RN1/16SE1202D
L 2709	(B,55,23) Inductor	CTF1306	R 20	(A,135,69)	RS1/16S101J	R 85	(B,85,31)	RS1/16SS103J	R 210	(A,103,43)	RS1/16S104J
L 2710	(B,55,27) Inductor	CTF1306	R 21	(A,139,67)	RS1/16S101J	R 87	(B,160,63)	RS1/16S104J	R 211	(A,102,43)	RS1/16S104J
L 2711	(B,51,30) Inductor	CTF1306	R 22	(A,137,69)	RS1/16S101J	R 88	(B,132,48)	RS1/16S104J	R 212	(A,94,43)	RS1/16S104J
L 2712	(B,33,15) Inductor	CTF1334	R 23	(B,137,60)	RS1/16S105J	R 89	(B,137,46)	RS1/16SOR0J	R 213	(A,93,43)	RS1/16S104J
L 2713	(B,37,17) Inductor	CTF1334	R 24	(B,137,62)	RS1/16S151J	R 90	(B,137,45)	RS1/16SOR0J	R 217	(A,125,36)	RS1/16S221J
L 2714	(A,43,22) Inductor	CTF1334	R 25	(A,134,69)	RS1/16S101J	R 93	(B,135,44)	RS1/16S153J	R 220	(A,126,9)	RS1/16S223J
L 2715	(A,39,22) Inductor (EW)	CTF1334	R 26	(A,138,69)	RS1/16S101J	R 94	(B,138,44)	RS1/16S153J	R 221	(A,126,26)	RS1/16S105J
L 2716	(B,51,20) Inductor	CTF1334	R 27	(A,135,67)	RS1/16S101J	R 95	(B,134,49)	RS1/16S153J	R 222	(A,126,17)	RS1/16S151J
L 2717	(B,58,7) Inductor	CTF1306	R 28	(A,137,67)	RS1/16S101J	R 96	(B,134,48)	RS1/16S153J	R 224	(A,84,16)	RS1/16SOR0J
L 2800	(B,160,133) Inductor	CTF1305	R 29	(A,134,67)	RS1/16S101J	R 97	(A,123,56)	RS1/16S473J	R 225	(A,122,9)	RS1/16S104J
TH601	(A,138,88) Thermistor	CCX1056	R 30	(A,132,67)	RS1/16S101J	R 98	(A,159,61)	RS1/16S473J	R 226	(A,123,9)	RS1/16S104J
X 1	(A,143,72) Radiator 30.000MHz	CSS1633	R 31	(A,133,69)	RS1/16S101J	R 101	(B,107,36)	RS1/16S473J	R 227	(A,84,19)	RS1/16S104J
X 2	(B,135,61) Radiator 33.000MHz	CSS1634				R 102	(B,107,21)	RS1/16S473J	R 228	(A,85,19)	RS1/16S104J
X 3	(B,161,49) Radiator 33.868MHz	CSS1551	R 32	(B,137,53)	RS1/16S473J	R 103	(B,105,59)	RS1/16S473J	R 229	(B,119,17)	RS1/16S560J
X 202	(A,127,22) Radiator 14.31818MHz	CSS1632	R 33	(A,131,69)	RS1/16S473J	R 104	(A,136,23)	RS1/16S220J	R 230	(A,85,14)	RS1/16S104J
X 601	(A,47,88) Radiator 10.0MHz	CSS1577	R 34	(B,158,50)	RS1/16S223J	R 151	(B,131,33)	RS1/16SOR0J	R 232	(A,86,14)	RS1/16S104J
VR751	(A,79,111) Semi-fixed 1kΩ(OB)	CCP1390	R 35	(A,127,49)	RS1/16S104J	R 152	(B,163,35)	RS1/16SOR0J	R 237	(B,117,17)	RS1/16S104J
△FU691	(B,167,151) Fuse 2.5A	CEK1285	R 36	(A,126,59)	RS1/16S101J	R 153	(B,146,44)	RS1/16S471J	R 238	(B,118,17)	RS1/16S330J
△FU692	(B,160,140) Fuse 2A	CEK1284	R 37	(A,126,61)	RS1/16S101J	R 154	(A,120,56)	RS1/16S473J	R 240	(A,119,8)	RS1/16S104J
△FU801	(A,59,120) Fuse 1.25A	CEK1255	R 38	(A,126,62)	RS1/16S101J	R 155	(A,118,56)	RS1/16S473J	R 301	(A,140,19)	RS1/16S123J
△FU802	(A,9,63) Fuse 4A	CEK1288	R 39	(A,126,63)	RS1/16S101J	R 156	(A,110,66)	RS1/16S473J	R 302	(A,140,22)	RS1/16S103J
△FU803	(B,109,137) Fuse 375mA	CEK1277	R 40	(A,126,46)	RS1/16S470J	R 157	(A,115,66)	RS1/16S473J	R 303	(A,141,17)	RS1/16S473J
△FU804	(A,24,72) Fuse 2.5A	CEK1285	R 45	(B,130,56)	RS1/16S104J	R 158	(A,122,52)	RS1/16S473J	R 320	(A,111,57)	RS1/16S103J
△FU805	(A,62,72) Fuse 2.5A	CEK1285	R 46	(B,131,62)	RS1/16S104J	R 159	(B,130,57)	RS1/16S473J	R 329	(A,114,54)	RS1/16SS821J
△FU806	(A,63,117) Fuse 1A	CEK1254	R 47	(B,161,47)	RS1/16S104J	R 160	(A,124,61)	RS1/16S473J	R 330	(A,115,50)	RS1/16SS221J
△FU807	(A,40,83) Fuse 1A	CEK1280	R 48	(B,159,65)	RS1/16S104J	R 161	(A,110,89)	RS1/16S103J	R 331	(A,115,52)	RS1/16SS221J
△FU808	(B,46,120) Fuse 4A	CEK1260	R 49	(B,161,65)	RS1/16S104J	R 162	(B,138,57)	RS1/16S473J	R 332	(A,115,51)	RS1/16SS472J
△FU809	(A,125,136) Fuse 2A	CEK1284	R 50	(B,162,65)	RS1/16S104J	R 163	(A,128,58)	RS1/16S590J	R 333	(A,103,81)	RS1/16SS222J
△FU810	(A,97,132) Fuse 500mA	CEK1278	R 51	(B,84,25)	RS1/16SS101J	R 164	(A,116,66)	RS1/16S473J	R 334	(A,103,59)	RS1/16SS222J
△FU811	(A,86,73) Fuse 2A	CEK1284	R 52	(B,84,26)	RS1/16SS101J	R 165	(A,126,70)	RS1/16S473J	R 335	(A,102,59)	RS1/16SS221J
△FU812	(A,117,139) Fuse 250mA	CEK1276	R 53	(B,84,27)	RS1/16SS101J	R 166	(A,108,69)	RS1/16S473J	R 336	(A,101,59)	RS1/16SS221J
						R 167	(A,121,64)	RS1/16S473J	R 349	(B,161,44)	RS1/16S473J

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Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 350	(B,152,43)	RS1/16S473J	R 661	(A,43,88)	RS1/16SS681J	R 777	(A,90,110)	RS1/16S750J	R 865	(B,29,70)	RS1/16S100J	R 865	(B,29,70)	RS1/16S100J
R 356	(A,114,56)	RS1/16S0R0J	R 662	(A,42,88)	RS1/16SS681J	R 778	(A,80,107)	RS1/16S681J	R 866	(B,26,58)	RS1/16S104J	R 866	(B,26,58)	RS1/16S104J
R 360	(B,101,61)	RS1/16SS473J	R 663	(A,41,88)	RS1/16SS681J	R 779	(A,81,114)	RS1/16S302J	R 867	(B,65,45)	RS1/16S473J	R 867	(B,65,45)	RS1/16S473J
R 361	(B,101,48)	RS1/16SS473J	R 664	(B,39,103)	RS1/16SS681J	R 780	(B,81,111)	RS1/16S102J	R 868	(B,67,71)	RS1/16S100J	R 868	(B,67,71)	RS1/16S100J
R 362	(B,101,60)	RS1/16SS473J	R 665	(A,38,110)	RAB4C681J	R 781	(A,107,81)	RS1/16S0R0J	R 869	(B,61,58)	RS1/16S104J	R 869	(B,61,58)	RS1/16S104J
R 363	(B,101,49)	RS1/16SS473J	R 666	(A,42,110)	RAB4C681J	R 782	(B,85,117)	RS1/16S105J	R 870	(B,62,42)	RS1/16S473J	R 870	(B,62,42)	RS1/16S473J
R 364	(B,101,52)	RS1/16SS473J	R 667	(A,45,109)	RS1/16SS681J	R 783	(B,91,118)	RS1/16S105J	R 873	(B,42,57)	RS1/10S150J	R 873	(B,42,57)	RS1/10S150J
R 365	(B,101,51)	RS1/16SS473J	R 668	(A,24,127)	RS1/16S104J	R 784	(B,102,113)	RS1/16S105J	R 874	(B,31,51)	RS1/16S224J	R 874	(B,31,51)	RS1/16S224J
R 366	(B,101,50)	RS1/16SS473J	R 670	(B,41,105)	RS1/16SS103J	R 785	(B,83,118)	RS1/16S105J	R 875	(B,31,66)	RS1/16S224J	R 875	(B,31,66)	RS1/16S224J
R 367	(B,103,49)	RS1/16SS473J	R 671	(B,41,103)	RS1/16SS103J	R 794	(A,75,105)	RS1/16SS63J	R 876	(B,42,61)	RS1/10S150J	R 876	(B,42,61)	RS1/10S150J
R 368	(B,103,51)	RS1/16SS473J	R 672	(A,35,110)	RS1/16SS681J	R 795	(A,77,103)	RS1/16SS102J	R 877	(B,77,57)	RS1/10S150J	R 877	(B,77,57)	RS1/10S150J
R 369	(B,101,59)	RS1/16SS473J	R 673	(B,41,104)	RS1/16SS102J	R 796	(A,75,103)	RS1/16SS63J	R 878	(B,66,51)	RS1/16S224J	R 878	(B,66,51)	RS1/16S224J
R 370	(A,93,72)	RS1/8S0R0J	R 674	(B,41,102)	RS1/16SS102J	R 805	(B,25,28)	RS1/16S151J	R 879	(B,66,65)	RS1/16S224J	R 879	(B,66,65)	RS1/16S224J
R 601	(A,138,87)	RS1/16S1803D	R 675	(A,34,99)	RS1/16SS681J	R 806	(B,23,26)	RS1/16S151J	R 880	(B,77,81)	RS1/10S150J	R 880	(B,77,81)	RS1/10S150J
R 602	(B,51,100)	RS1/16SS473J	R 676	(A,37,91)	RS1/16SS681J	R 807	(B,51,35)	RS1/16S470J	R 884	(B,91,147)	RS1/4S561J	R 884	(B,91,147)	RS1/4S561J
R 603	(A,131,91)	RS1/16SS473J	R 687	(A,51,122)	RS1/16S470J	R 808	(B,50,35)	RS1/16S103J	R 885	(B,91,150)	RS1/4S561J	R 885	(B,91,150)	RS1/4S561J
R 604	(A,34,94)	RS1/16SS0R0J	R 691	(B,157,149)	RS1/16S471J	R 810	(B,70,32)	RS1/16S0R0J	R 886	(B,85,144)	RS1/16S103J	R 886	(B,85,144)	RS1/16S103J
R 606	(A,38,88)	RAB4C681J	R 692	(B,159,149)	RS1/16S471J	R 812	(B,53,35)	RS1/16S470J	R 891	(B,111,138)	RS1/16S1101D	R 891	(B,111,138)	RS1/16S1101D
R 607	(A,126,86)	RS1/16SS473J	R 693	(A,171,139)	RS1/16S681J	R 813	(B,56,106)	RS1/16S0R0J	R 892	(B,109,140)	RS1/16S6800D	R 892	(B,109,140)	RS1/16S6800D
R 608	(B,156,135)	RS1/16SS63J	R 694	(A,167,139)	RS1/16S681J	R 814	(A,82,96)	RS1/16S0R0J	R 893	(B,111,129)	RS1/16S102J	R 893	(B,111,129)	RS1/16S102J
R 609	(B,155,133)	RS1/16S104J	R 695	(A,170,139)	RS1/16S681J	R 817	(B,25,30)	RS1/16S103J	R 894	(B,113,140)	RS1/16S472J	R 894	(B,113,140)	RS1/16S472J
R 610	(B,152,132)	RS1/16S473J	R 696	(A,165,139)	RS1/16S681J	R 819	(B,40,85)	RS1/16S181J	R 895	(B,111,132)	RS1/16S102J	R 895	(B,111,132)	RS1/16S102J
R 611	(B,155,135)	RS1/16S472J	R 697	(A,168,139)	RS1/16S681J	R 820	(B,40,83)	RS1/16S181J	R 896	(B,104,129)	RS1/16S103J	R 896	(B,104,129)	RS1/16S103J
R 614	(A,34,103) (UC)	RS1/16SS473J	R 711	(B,63,156)	RS1/16S102J	R 821	(A,32,83)	RS1/16S103J	R 901	(B,148,122)	RS1/16S224J	R 901	(B,148,122)	RS1/16S224J
R 615	(A,34,102) (EW)	RS1/16SS473J	R 712	(B,66,152)	RS1/16S472J	R 824	(B,60,34)	RS1/16S0R0J	R 902	(B,38,122)	RS1/16S473J	R 902	(B,38,122)	RS1/16S473J
R 616	(A,46,109)	RS1/16SS681J	R 715	(B,64,149)	RS1/16S472J	R 825	(A,89,55)	RS1/10S360J	R 903	(B,40,116)	RS1/16S223J	R 903	(B,40,116)	RS1/16S223J
R 617	(A,41,86)	RS1/16S0R0J	R 716	(B,60,150)	RS1/16S133J	R 826	(A,89,57)	RS1/10S360J	R 904	(B,39,116)	RS1/16S223J	R 904	(B,39,116)	RS1/16S223J
R 618	(B,40,100)	RS1/16SS473J	R 730	(B,74,102)	RS1/16S0R0J	R 827	(A,89,53)	RS1/16S103J	R 905	(B,26,82)	RS1/10S472J	R 905	(B,26,82)	RS1/10S472J
R 620	(B,49,97)	RS1/16SS473J	R 732	(B,146,144)	RS1/16S102J	R 829	(A,119,138)	RS1/16S475J	R 906	(B,30,82)	RS1/16S223J	R 906	(B,30,82)	RS1/16S223J
R 622	(A,46,113)	RS1/16SS473J	R 733	(B,147,145)	RS1/16S102J	R 830	(B,9,52)	RS1/16S101J	R 911	(B,62,119)	RS1/16S473J	R 911	(B,62,119)	RS1/16S473J
R 623	(A,48,110)	RAB4C681J	R 734	(A,140,140)	RS1/16S102J	R 831	(B,8,52)	RS1/16S1600D	R 912	(B,116,140)	RS1/16S472J	R 912	(B,116,140)	RS1/16S472J
R 625	(A,35,106)	RS1/16S473J	R 735	(A,138,140)	RS1/16S102J	R 832	(B,8,54)	RS1/16S5601D	R 913	(B,121,138)	RS1/16S102J	R 913	(B,121,138)	RS1/16S102J
R 626	(A,52,110)	RAB4C681J	R 736	(A,137,140)	RS1/16S0R0J	R 833	(B,9,56)	RS1/16S1001D	R 914	(B,62,111)	RS1/16S473J	R 914	(B,62,111)	RS1/16S473J
R 627	(A,60,95)	RS1/16SS473J	R 737	(A,135,140)	RS1/16S102J	R 834	(B,9,70)	RS1/16S331J	R 915	(B,66,119)	RS1/16S473J	R 915	(B,66,119)	RS1/16S473J
R 628	(A,35,100)	RS1/16SS473J	R 738	(B,141,148)	RS1/16S681J	R 835	(B,15,70)	RS1/16S154J	R 916	(B,64,119)	RS1/16S0R0J	R 916	(B,64,119)	RS1/16S0R0J
R 629	(A,58,95)	RS1/16SS473J	R 739	(B,140,148)	RS1/16S681J	R 836	(B,31,49)	RS1/16S3300D	R 917	(B,66,98)	RS1/16S0R0J	R 917	(B,66,98)	RS1/16S0R0J
R 631	(A,132,84)	RS1/16S681J	R 751	(B,102,93)	RS1/16SS101J	R 837	(B,27,48)	RS1/16S101J	R 918	(B,67,99)	RS1/16S471J	R 918	(B,67,99)	RS1/16S471J
R 632	(A,37,107)	RS1/16SS473J	R 752	(B,104,94)	RS1/16SS101J	R 838	(B,27,49)	RS1/16S3001D	R 919	(A,112,138)	RS1/16S475J	R 919	(A,112,138)	RS1/16S475J
R 633	(A,57,90)	RS1/16SS473J	R 753	(B,106,96)	RS1/16SS101J	R 839	(B,25,49)	RS1/16S1001D	R 920	(B,68,133)	RS1/16S101J	R 920	(B,68,133)	RS1/16S101J
R 634	(B,54,112)	RS1/16S473J	R 754	(B,97,95)	RS1/16S222J	R 840	(B,26,51)	RS1/16S102J	R 921	(B,62,117)	RS1/16S103J	R 921	(B,62,117)	RS1/16S103J
R 636	(B,56,110)	RS1/16S473J	R 755	(B,90,96)	RS1/16S222J	R 841	(B,26,54)	RS1/16S104J	R 922	(B,87,135)	RS1/16S0R0J	R 922	(B,87,135)	RS1/16S0R0J
R 637	(B,12,89)	RS1/16S473J	R 756	(B,85,97)	RS1/16S103J	R 842	(B,31,67)	RS1/16S6800D	R 925	(A,69,109)	RS1/16S102J	R 925	(A,69,109)	RS1/16S102J
R 640	(B,52,87)	RS1/16SS101J	R 757	(B,87,101)	RS1/16S272J	R 843	(B,27,67)	RS1/16S5601D	R 926	(A,69,110)	RS1/16S103J	R 926	(A,69,110)	RS1/16S103J
R 641	(B,52,88)	RS1/16SS473J	R 758	(B,83,100)	RS1/16S272J	R 844	(B,25,68)	RS1/16S1001D	R 927	(B,68,131)	RS1/16S471J	R 927	(B,68,131)	RS1/16S471J
R 642	(A,55,108)	RS1/16SS681J	R 759	(B,85,101)	RS1/16S0R0J	R 845	(B,27,69)	RS1/16S101J	R 928	(B,67,134)	RS1/16S103J	R 928	(B,67,134)	RS1/16S103J
R 643	(A,57,99)	RS1/16SS681J	R 760	(B,81,103)	RS1/16S301J	R 846	(B,26,68)	RS1/16S102J	R 929	(B,63,135)	RS1/10S103J	R 929	(B,63,135)	RS1/10S103J
R 644	(B,49,99)	RS1/16SS681J	R 761	(B,83,94)	RS1/16S1000D	R 847	(B,66,48)	RS1/16S5600D	R 936	(B,66,91)	RS1/16S820J	R 936	(B,66,91)	RS1/16S820J
R 645	(A,57,97)	RS1/16SS681J	R 762	(B,96,108)	RN1/16SE2002D	R 848	(B,63,48)	RS1/16S2401D	R 937	(B,69,91)	RS1/16S820J	R 937	(B,69,91)	RS1/16S820J
R 646	(A,57,93)	RAB4C681J	R 763	(B,93,108)	RS1/16S473J	R 849	(B,63,49)	RS1/16S101J	R 938	(B,114,138)	RS1/16S561J	R 938	(B,114,138)	RS1/16S561J
R 648	(A,55,88)	RS1/16SS681J	R 764	(B,104,108)	RS1/16S75R0D	R 850	(B,60,49)	RS1/16S1601D	R 939	(B,8,49)	RS1/16S0R0J	R 939	(B,8,49)	RS1/16S0R0J
R 649	(A,54,88)	RS1/16SS681J	R 765	(B,102,108)	RS1/16S75R0D	R 851	(B,61,51)	RS1/16S152J	R 940	(B,31,47)	RS1/16S0R0J	R 940	(B,31,47)	RS1/16S0R0J
R 650	(B,57,91)	RS1/16SS104J	R 766	(B,101,108)	RS1/16S75R0D	R 852	(B,66,69)	RS1/16S1200D	R 941	(B,33,68)	RS1/16S0R0J	R 941	(B,33,68)	RS1/16S0R0J
R 651	(B,63,93)	RS1/16S681J	R 767	(B,99,108)	RS1/16S750J	R 853	(B,63,69)	RS1/16S1001D	R 942	(B,66,46)	RS1/16S0R0J	R 942	(B,66,46)	RS1/16S0R0J
R 653	(A,138,84)	RS1/16S2003F	R 768	(B,84,104)	RS1/16S62R0D	R 854	(B,61,53)	RS1/16S104J	R 943	(B,68,68)	RS1/16S104J	R 943	(B,68,68)	RS1/16S104J
R 654	(A,34,105)	RS1/16SS473J	R 769	(B,106,119)	RS1/16S105J	R 855	(B,63,68)	RS1/16S101J	R 944	(B,26,63)	RS1/16S104J	R 944	(B,26,63)	RS1/16S104J
R 655	(A,55,109)	RS1/16SS681J	R 770	(B,87,122)	RS1/16S101J	R 856	(B,60,68)	RS1/16S1001D	R 945	(B,61,63)	RS1/16S104J	R 945	(B,61,63)	RS1/16S104J
R 657	(A,54,85)	RS1/16S104J	R 772	(B,103,115)	RS1/16S105J	R 857	(B,61,66)	RS1/16S152J	R 946	(B,37,116)	RS1/16S4701D	R 946	(B,37,116)	RS1/16S4701D
R 658	(A,35,97)	RS1/16SS101J	R 773	(A,106,98)	RS1/16S750J	R 858	(B,21,67)	RS1/16S100J	R 952	(A,78,95)	RS1/16S473J	R 952	(A,78,95)	RS1/16S473J
R 659	(A,51,88)	RAB4C681J	R 774	(B,96,115)	RS1/16S101J	R 859	(B,16,57)	RS1/16S184J	R 954	(B,57,149)	RS1/16S103J	R 954	(B,57,149)	RS1/16S103J
R 660	(A,43,87)	RS1/16SS104J	R 776	(A,123,121)	RS1/16S750J	R 861	(B,9,47)	RS1/10S100J	R 962	(A,31,95)	RS1/16S103J	R 962	(A,31,95)	RS1/16S103J

5		6		7		8		1		2		3		4		
Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.		
R 971	(B,17,127)	RS1/16S824J	R 2478	(B,143,101)	RS1/16S472J	R 2701	(B,49,30)	RS1/16S222J	A	A	RS1/16S222J	C 21	(B,148,23)	CKSRYB104K16		
R 972	(B,16,131)	RS1/16S102J	R 2479	(B,143,103)	RS1/16S472J	R 2702	(B,58,9)	RS1/16S222J			RS1/16S222J	C 22	(B,148,25)			
R 973	(B,21,125)	RS1/16S472J	R 2480	(B,145,119)	RS1/16S472J	R 2706	(B,53,18)	RS1/16S222J			RS1/16S222J	C 23	(B,148,30)			
R 974	(B,18,122)	RS1/8S271J	R 2481	(B,143,115)	RS1/16S472J	R 2707	(B,54,23)	RS1/16S102J	■	■	RS1/16S102J	C 24	(B,148,41)	CKSRYB104K16		
R 975	(B,18,119)	RS1/8S751J	R 2482	(B,143,106)	RS1/16S472J	R 2708	(B,53,27)	RS1/16S102J			RS1/16S102J	C 25	(A,141,37)			
R 977	(B,30,126)	RS1/16S103J	R 2483	(B,143,112)	RS1/16S472J	R 2710	(A,46,20)	RS1/16S102J			RS1/16S102J	C 26	(A,141,66)	CKSRYB104K16	CCG1171	
R 978	(B,32,126)	RS1/16S103J	R 2484	(B,146,104)	RS1/16S472J	R 2711	(A,46,25)	RS1/16S102J	■	■	RS1/16S102J	C 27	(B,152,18) 10μF			
R 979	(A,8,47)	RS1/10S0R0J	R 2485	(B,146,114)	RS1/16S472J	R 2712	(B,51,19)	RS1/16S103J			RS1/16S103J	C 28	(B,157,16)	CKSRYB104K16	CCG1171	
R 981	(A,48,72)	RS1/10S0R0J	R 2486	(B,148,103)	RS1/16S472J	R 2715	(B,35,14)	RS1/16S223J	■	■	RS1/16S223J	C 29	(B,163,28)			
R 982	(A,85,71)	RS1/10S0R0J	R 2487	(B,149,116)	RS1/16S472J	R 2716	(B,43,26)	RS1/16S223J			RS1/16S223J	C 30	(A,158,19)	CKSRYB104K16	CCSRCH9R0D50	
R 983	(B,14,44)	RS1/10S102J	R 2488	(B,148,101)	RS1/16S471J	R 2717	(B,35,13)	RS1/16S472J	■	■	RS1/16S472J	C 31	(B,132,59)			
R 2403	(A,135,123)	RS1/16S102J	R 2489	(B,149,117)	RS1/16S471J	R 2718	(B,39,12)	RS1/16S103J			RS1/16S103J	C 32	(B,132,63)			
R 2404	(B,128,135)	RS1/16S473J	R 2492	(B,24,110)	RS1/16S223J	R 2719	(B,39,14)	RS1/16S223J			RS1/16S223J	C 33	(A,136,37)	CKSRYB104K16	CCSRCH9R0D50	
R 2407	(B,128,126)	RS1/16SS473J	R 2493	(B,25,114)	RS1/16S473J	R 2720	(B,40,12)	RS1/16S472J	■	■	RS1/16S472J	C 35	(A,136,67)			
R 2409	(B,131,133)	RS1/16S473J	R 2496	(B,31,112)	RS1/16S103J	R 2721	(A,36,15)	RS1/16S223J			RS1/16S223J	C 36	(A,130,66)			
R 2410	(B,131,128)	RS1/16SS473J	R 2497	(B,23,117)	RS1/16S102J	R 2722	(A,36,14)	RS1/16S472J			■	■	RS1/16S472J	C 38	(A,135,33) 10μF	
R 2411	(B,133,135)	RS1/16S473J	R 2499	(B,23,123)	RS1/16S103J	R 2723	(A,39,15) (EW)	RS1/16S223J	RS1/16S223J	C 39			(A,127,42)	CCG1171	CKSRYB104K16	
R 2416	(B,132,126)	RS1/16SS473J	R 2500	(B,24,126)	RS1/16S103J	R 2724	(A,39,14) (EW)	RS1/16S472J	■	■	RS1/16S472J	C 40	(A,127,43)			
R 2417	(B,109,103)	RS1/16S104J	R 2501	(B,29,142)	RS1/16S221J	R 2725	(A,43,13) (EW)	RS1/16S103J			■	■	RS1/16S103J	C 41	(A,127,51)	CKSRYB104K16
R 2418	(B,110,107)	RS1/16S102J	R 2502	(B,26,139)	RS1/16S102J	R 2726	(A,42,15) (EW)	RS1/16S223J	RS1/16S223J	C 42			(B,141,45)			
R 2419	(B,133,123)	RS1/16SS473J	R 2503	(B,31,142)	RS1/16S101J	R 2727	(A,39,23) (UC)	RS1/16S0R0J	■	■			RS1/16S0R0J	C 44	(B,137,57)	CKSRYB104K16
R 2420	(B,133,138)	RS1/16S473J	R 2551	(A,14,140)	RS1/16SS101J	R 2729	(A,42,13) (EW)	RS1/16S472J			RS1/16S472J	C 47	(B,145,66)			
R 2421	(B,110,109)	RS1/16S473J	R 2552	(A,15,143)	RS1/16SS821J	R 2730	(B,33,102)	RS1/16S471J	■	■	RS1/16S471J	C 49	(B,144,45)	CKSRYB104K16	CKSRYB104K16	
R 2422	(B,135,137)	RS1/16S473J	R 2553	(A,14,145)	RS1/16SS473J	R 2731	(B,33,99)	RS1/16S471J			RS1/16S471J	C 51	(A,149,37)			
R 2423	(B,135,124)	RS1/16SS473J	R 2555	(A,10,146)	RS1/16SS361J	R 2732	(A,38,25)	RS1/16S332J	■	■	RS1/16S332J	C 54	(B,84,38)	CKSRYB104K16	CCSRCH121J50	
R 2424	(B,112,111)	RS1/16S473J	R 2556	(B,137,119)	RS1/16S473J	R 2733	(A,40,25)	RS1/16S332J			RS1/16S332J	C 55	(B,148,45)			
R 2425	(B,136,137)	RS1/16S473J	R 2557	(B,137,121)	RS1/16S473J	R 7021	(A,122,123)	RS1/16S820J	■	■	RS1/16S820J	C 57	(B,152,45)	CKSRYB104K16	CKSRYB104K16	
R 2426	(B,136,124)	RS1/16SS473J	R 2558	(B,130,120)	RS1/16S473J	R 7037	(B,145,134)	RS1/16S101J			RS1/16S101J	C 60	(B,153,66)			
R 2428	(B,116,114)	RS1/16S0R0J	R 2566	(A,128,105)	RS1/16SS101J	R 7038	(B,144,136)	RS1/16S101J	■	■	RS1/16S101J	C 63	(B,158,47)	CKSRYB104K16	CKSRYB104K16	
R 2432	(B,119,105)	RS1/16S473J	R 2567	(A,128,106)	RS1/16SS101J	R 7039	(B,121,133)	RS1/16S750J			RS1/16S750J	C 64	(B,158,53)			
R 2433	(B,115,105)	RS1/16S473J	R 2568	(A,128,107)	RS1/16SS101J	R 7042	(B,114,130)	RS1/16S4701D	■	■	RS1/16S4701D	C 66	(B,158,55)	CKSRYB104K16	CCG1171	
R 2438	(A,146,111)	RS1/16S181J	R 2569	(B,133,121)	RS1/16S102J	R 7043	(B,118,127)	RS1/16S4701D			RS1/16S4701D	C 67	(B,160,56) 10μF			
R 2439	(B,122,114)	RS1/16S331J	R 2570	(B,130,116)	RS1/16S0R0J	R 7044	(B,113,124)	RS1/16S101J	■	■	RS1/16S101J	C 68	(A,131,36) 22μF	CKSRYB103Z50	CKSRYB103Z50	
R 2440	(A,145,109)	RS1/16S181J	R 2571	(B,146,103)	RS1/16S224J	R 7045	(B,123,120)	RS1/16S102J			RS1/16S102J	C 69	(A,131,34) 22μF			
R 2441	(A,145,107)	RS1/16S223J	R 2572	(B,146,115)	RS1/16S224J	R 7046	(B,115,127)	RS1/16S4701D	■	■	RS1/16S4701D	C 70	(A,131,31) 22μF	CKSRYB103Z50	CKSRYB103Z50	
R 2444	(A,145,113)	RS1/16S223J	R 2602	(A,161,118)	RS1/16S0R0J	R 7047	(B,118,126)	RS1/16S4701D			RS1/16S4701D	C 71	(B,130,62)			
R 2445	(A,145,104)	RS1/16S102J	R 2603	(B,157,105)	RS1/16S102J	R 7048	(B,117,116)	RS1/16S563J	■	■	RS1/16S563J	C 72	(B,163,52)	CKSRYF104Z25	CKSRYF104Z25	
R 2446	(A,144,115)	RS1/16S102J	R 2604	(B,157,107)	RS1/16S102J	R 7049	(B,120,120)	RS1/16S473J			RS1/16S473J	C 73	(B,162,52)			
R 2447	(B,123,112)	RS1/16S104J	R 2606	(B,162,110)	RS1/16S883J	CAPACITORS					C 74	(B,158,62)	CKSRYF104Z25	CKSRYF104Z25		
R 2448	(B,131,114)	RS1/16S104J	R 2608	(B,161,106)	RS1/16S153J	C 1	(B,132,19)	CKSRYB104K16	■	■	C 2	(B,132,23)			CKSRYB104K16	CKSRYB103K50
R 2449	(B,129,114)	RS1/16S101J	R 2610	(B,164,104)	RS1/16S0R0J	C 3	(B,132,25)	CKSRYB104K16			C 3	(B,132,25)	CKSRYB104K16			
R 2450	(B,131,105)	RS1/16S473J	R 2612	(B,170,103)	RS1/16S752J	C 4	(B,132,30)	CKSRYB104K16			C 4	(B,132,30)	CKSRYB104K16	CKSRYB103K50	CKSRYB103K50	
R 2451	(B,151,92)	RS1/16S152J	R 2613	(B,160,110)	RS1/16S883J	C 5	(B,132,42)	CKSRYB104K16	■	■	C 5	(B,132,42)	CKSRYB104K16			
R 2452	(B,128,105)	RS1/16S101J	R 2615	(B,168,103)	RS1/16S394J	C 6	(A,152,37)	CKSRYB104K16			■	■	CKSRYB104K16	C 6	(A,152,37)	CKSRYB104K16
R 2459	(A,127,98) (UC)	RS1/16S471J	R 2616	(B,168,100)	RS1/16S101J	C 7	(A,157,45)	CKSRYB104K16	C 7	(A,157,45)			CKSRYB104K16			
R 2460	(B,155,92)	RS1/16S104J	R 2617	(B,164,101)	RS1/16S105J	C 8	(A,156,50)	CKSRYB104K16	C 8	(A,156,50)			CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	
R 2461	(B,147,84)	RS1/16S1202D	R 2618	(B,162,102)	RS1/16S102J	C 9	(A,156,53)	CKSRYB104K16	■	■	C 9	(A,156,53)	CKSRYB104K16			
R 2462	(B,145,88)	RS1/16S1003D	R 2619	(B,162,100)	RS1/16S472J	C 10	(A,157,56)	CKSRYB104K16			C 10	(A,157,56)	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	
R 2463	(A,130,97)	RS1/16S0R0J	R 2620	(B,159,102)	RS1/16S152J	C 11	(A,157,81)	CKSRYB104K16	■	■	CKSRYB104K16	C 11	(A,157,81)			CKSRYB104K16
R 2464	(A,127,114)	RS1/16S0R0J	R 2621	(B,159,100)	RS1/16S472J	C 12	(B,136,18) 10μF	CCG1171			C 12	(B,136,18) 10μF	CCG1171	CKSRYB104K16	CKSRYB104K16	
R 2465	(A,130,117) (UC)	RS1/16SS471J	R 2622	(B,156,102)	RS1/16S472J	C 13	(B,146,26)	CKSRYB104K16			C 13	(B,146,26)	CKSRYB104K16			
R 2470	(A,127,101)	RS1/16S0R0J	R 2623	(B,156,100)	RS1/16S472J	C 14	(B,146,30)	CKSRYB104K16	■	■	CKSRYB104K16	C 14	(B,146,30)	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16
R 2471	(A,130,120)	RS1/16S0R0J	R 2624	(B,161,118)	RS1/16S333J	C 15	(A,148,37)	CKSRYB104K16			C 15	(A,148,37)	CKSRYB104K16			
R 2472	(B,137,104)	RS1/16S331J	R 2625	(B,165,116)	RS1/16S883J	C 16	(A,145,37)	CKSRYB104K16			C 16	(A,145,37)	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	
R 2473	(B,137,115)	RS1/16S331J	R 2626	(B,163,116)	RS1/16S154J	C 17	(A,147,67)	CKSRYB104K16	■	■	CKSRYB104K16	C 17	(A,147,67)			CKSRYB104K16
R 2474	(B,152,82)	RS1/16S101J	R 2627	(B,162,116)	RS1/16S101J	C 18	(A,145,69)	CCSRCH100D50			C 18	(A,145,69)	CCSRCH100D50	CKSRYB104K16	CKSRYB104K16	
R 2475	(B,140,104)	RS1/16S104J	R 2628	(B,133,115)	RS1/16S103J	C 19	(A,143,69)	CCSRCH100D50	■	■	CCSRCH100D50	C 106	(A,165,30)	CKSRYB104K16	CKSRYB104K16	
R 2476	(B,140,114)	RS1/16S104J	R 2629	(B,134,104)	RS1/16S103J	C 20	(B,149,19)	CKSRYB104K16			C 107	(A,161,34)	CKSRYB104K16	C 108	(A,161,42)	CKSRYB104K16
			R 2630	(B,166,114)	RS1/16S473J						C 109	(A,161,51)	CKSRYB104K16	C 109	(A,161,51)	CKSRYB104K16
			R 2631	(B,169,113)	RS1/16S473J				C 110	(B,106,43) 10μF	CCG1171	C 110	(B,106,43) 10μF	CCG1171		

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Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	
C 111	(B,107,40)	CKSRYB104K16	C 252	(A,90,43) 10 μ F	CCG1171	C 648	(A,48,121)	CKSRYF104Z25	C 782	(A,109,121)	CKSRYB104K16	C 838	(B,12,59)	CKSRYF474Z16	
C 112	(B,107,35)	CKSRYF224Z16	C 253	(A,126,15)	CKSRYF104Z25	C 670	(A,39,86)	CKSSYB104K10	C 783	(A,106,116)	CEVW101M16	C 839	(A,15,45) 220 μ F/10V	CCG11409	
C 113	(B,106,28) 10 μ F	CCG1171	C 255	(A,88,34)	CKSRYB103K50	C 671	(A,35,99)	CKSSYB104K10	C 784	(A,105,121)	CKSRYB103K50	C 840	(A,17,61) 10 μ F	CCG1173	
C 114	(B,107,25)	CKSRYB104K16	C 256	(A,88,28)	CKSRYB103K50	C 672	(A,35,96)	CKSSYB104K10	C 785	(B,104,119)	CKSQYB225K10	C 841	(B,25,72) 4.7 μ F	CCG1111	
C 115	(B,107,20)	CKSRYF224Z16	C 257	(A,88,27)	CKSRYB103K50	C 673	(B,41,106)	CKSSYB104K10	C 786	(A,120,116)	CEVW101M16	C 842	(B,26,55)	CKSRYB103K50	
C 116	(B,119,65)	CKSRYF104Z25	C 258	(A,88,23)	CKSRYB103K50	C 675	(A,138,86)	CKSSYB104K10	C 787	(A,114,116)	CEVW220M6R3				
C 117	(B,107,52) 10 μ F	CCG1171	C 259	(A,88,22)	CKSRYB103K50	C 691	(B,157,152)	CKSRYB102K50	C 788	(B,88,105)	CKSRYB104K16				
C 118	(B,107,51)	CKSRYB104K16	C 260	(A,88,16)	CKSRYB103K50	C 692	(B,157,143)	CKSRYB104K16	C 790	(B,78,117)	CKSRYB104K16				
C 119	(B,119,50)	CKSRYF104Z25	C 261	(A,85,9)	CKSRYB103K50	C 693	(B,160,146)	CKSQYB105K16	C 791	(B,77,115)	CKSYF106Z10				
C 120	(B,109,63)	CKSRYF104Z25	C 262	(A,84,9)	CKSRYB103K50	C 694	(B,159,142)	CKSQYB105K16	C 792	(B,100,122)	CKSRYB104K16				
C 121	(B,109,58)	CKSRYF104Z25	C 301	(A,141,22)	CKSRYF104Z25	C 695	(B,167,149)	CKSQYB105K16	C 793	(B,102,123)	CKSYF106Z10				
C 122	(B,104,39)	CKSRYF104Z25	C 302	(A,149,22)	CKSRYB334K10	C 696	(B,172,152)	CKSRYB102K50	C 794	(B,108,121)	CKSYF106Z10				
C 123	(B,106,55)	CKSRYF103Z50	C 303	(A,142,13)	CKSRYF104Z25	C 697	(B,161,136)	CKSQYB105K16	C 795	(A,80,103)	CKSQYB225K10				
C 124	(B,130,41)	CCSRCH101J50	C 306	(A,120,49)	CKSRYF104Z25	C 698	(B,164,136)	CKSRYB105K16	C 796	(A,76,101)	CKSQYB225K10				
C 125	(A,166,34)	CKSRYF104Z25	C 323	(A,108,57) 10 μ F	CCG1171	C 699	(B,170,135)	CKSRYB102K50	C 797	(B,88,107) 10 μ F	CCG1171				
C 126	(A,166,51)	CKSRYF104Z25	C 324	(A,97,67)	CKSRYB104K16	C 700	(B,167,135)	CKSRYB102K50	C 798	(B,109,118)	CKSRYB104K16				
C 201	(A,124,39)	CKSRYB104K16	C 327	(A,98,69) 10 μ F	CCG1171	C 701	(B,169,135)	CKSRYB102K50	C 799	(B,75,112)	CKSRYB104K16				
C 202	(A,119,43)	CKSRYB104K16	C 328	(A,105,52)	CKSRYB104K16	C 702	(B,166,135)	CKSRYB102K50	C 800	(B,96,118)	CKSRYB104K16				
C 203	(A,118,43)	CKSRYB104K16	C 329	(A,103,51) 10 μ F	CCG1171	C 706	(B,60,151)	CKSRYB104K25	C 801	(B,29,31)	CKSRYB103K50				
C 204	(A,122,38)	CKSRYB104K16	C 330	(A,91,61) 10 μ F	CCG1171	C 732	(B,154,144)	CKSRYB102K50	C 802	(A,30,28)	CEVW101M16				
C 205	(A,112,43)	CKSRYB104K16	C 331	(A,93,61)	CKSRYB104K16	C 733	(B,151,144)	CKSRYB102K50	C 803	(B,26,80)	CKSQYB225K10				
C 206	(A,106,42)	CKSRYB104K16	C 332	(A,93,64)	CKSRYB104K16	C 734	(B,148,134)	CKSRYB102K50	C 804	(A,42,32)	CEVW101M16				
C 207	(A,100,43)	CKSRYB104K16	C 339	(A,91,65) 10 μ F	CCG1171	C 735	(B,142,139)	CKSRYB102K50	C 805	(B,50,37)	CKSRYB103K50				
C 208	(A,97,43)	CKSRYB104K16	C 341	(A,161,19)	CCSRCH101J50	C 736	(B,135,148)	CKSRYF104Z25	C 806	(B,63,78)	CKSRYB103K50				
C 209	(A,88,38)	CKSRYB104K16	C 342	(A,141,15)	CKSRYF104Z25	C 737	(A,131,133)	CKSRYF104Z25	C 807	(A,65,83)	CEVW470M16				
C 211	(A,122,35)	CKSRYB104K16	C 344	(B,146,13)	CKSRYF103Z50	C 738	(A,128,133)	CKSRYF104Z25	C 808	(B,69,79)	CKSRYF334Z16				
C 213	(A,122,33)	CKSRYB104K16	C 345	(B,145,13)	CKSRYF104Z25	C 739	(B,133,152)	CKSRYF104Z25	C 809	(A,124,134)	CKSRYB103K50				
C 214	(A,124,33)	CKSRYB104K16	C 348	(B,131,13)	CKSRYF103Z50	C 740	(B,135,152)	CKSRYF104Z25	C 810	(A,121,129)	CEVW101M16				
C 215	(A,88,36)	CKSRYB104K16	C 347	(B,119,11)	CKSRYF103Z50	C 741	(B,138,151)	CKSRYF104Z25	C 811	(A,68,72)	CKSRYF104Z25				
C 216	(A,88,33)	CKSRYB104K16	C 348	(B,118,9)	CKSRYF104Z25	C 748	(B,86,89)	CKSSYB103K16	C 812	(A,44,81)	CKSRYB103K50				
C 217	(A,88,31)	CKSRYB104K16	C 349	(B,97,8)	CKSRYF103Z50	C 749	(B,87,92)	CKSQYB225K10	C 813	(A,49,82)	CEVW101M16				
C 220	(A,126,34) 10 μ F	CCG1171	C 350	(A,94,67)	CKSRYB104K16	C 751	(B,104,96)	CKSRYB104K16	C 814	(A,32,88)	CEVW101M16				
C 221	(A,122,30)	CKSRYB104K16	C 601	(B,54,98)	CKSSYB104K10	C 752	(B,102,96)	CKSRYB104K16	C 815	(A,92,54)	CKSRYB103K50				
C 222	(A,122,27)	CKSRYB104K16	C 602	(A,35,98)	CKSSYB104K10	C 753	(B,100,96)	CKSRYB104K16	C 816	(A,97,53)	CEVW101M16				
C 223	(A,124,9)	CKSRYB224K10	C 603	(B,44,91)	CKSSYB104K10	C 754	(B,99,94)	CCSRCH5R0C50	C 817	(B,9,54)	CKSRYB473K50				
C 224	(A,122,25)	CKSRYB104K16	C 604	(B,46,91)	CKSSYB104K10	C 755	(B,94,98)	CCSRCH470J50	C 818	(B,12,70)	CKSRYB103K50				
C 225	(A,124,30)	CKSRYB104K16	C 605	(B,44,95)	CKSSYB104K10	C 756	(B,95,98)	CKSRYF104Z25	C 819	(B,10,68)	CCSRCH101J50				
C 227	(A,88,30)	CKSRYB104K16	C 606	(A,35,94)	CKSRYB104K16	C 787	(A,93,96)	CEVQW470M16	C 820	(B,8,68)	CKSRYB224K16				
C 228	(A,88,25)	CKSRYB104K16	C 607	(A,37,86)	CKSSYB104K10	C 758	(B,92,92)	CKSRYB105K6R3	C 821	(B,31,48)	CKSRYB473K50				
C 230	(A,127,26)	CCSRCH150J50	C 608	(B,57,96)	CKSSYB104K10	C 761	(B,95,108)	CCSRCH220J50	C 822	(B,28,52)	CCSRCH101J50				
C 231	(A,128,17)	CCSRCH120J50	C 609	(B,150,133)	CKSRYB104K16	C 762	(A,87,96)	CEVW100M16	C 823	(B,26,52)	CKSRYB104K16				
C 232	(A,122,22)	CKSRYB104K16	C 610	(A,124,90)	CKSSYB104K10	C 763	(B,92,108)	CKSRYF104Z25	C 824	(B,31,69)	CKSRYB223K50				
C 233	(A,122,19)	CKSRYB104K16	C 611	(B,46,93)	CKSSYB104K10	C 764	(A,101,105)	CEVW221M4	C 825	(B,28,65)	CCSRCH101J50				
C 234	(A,88,21)	CKSRYB104K16	C 612	(A,133,87)	CKSRYB104K10	C 765	(A,94,105)	CEVW221M4	C 826	(B,26,64)	CKSRYB104K16				
C 235	(A,88,19)	CKSRYB104K16	C 617	(B,56,89)	CKSQYB225K10	C 766	(A,86,105)	CEVW221M4	C 827	(B,66,49)	CKSRYB153K50				
C 237	(A,123,16)	CKSRYB104K16	C 620	(B,46,104)	CKSRYF104Z25	C 767	(A,111,104)	CEVW221M4	C 828	(B,63,51)	CCSRCH101J50				
C 238	(A,123,14)	CKSRYB104K16	C 623	(B,50,88)	CKSSYB104K10	C 768	(B,98,108)	CKSRYB105K6R3	C 829	(B,61,52)	CKSRYB104K16				
C 239	(A,88,18)	CKSRYB104K16	C 624	(B,51,104)	CKSRYF104Z25	C 769	(A,99,96)	CEVQW470M16	C 830	(B,66,68)	CKSRYB153K50				
C 240	(A,88,15)	CKSRYB104K16	C 626	(B,51,83)	CKSSYB103K16	C 770	(B,94,93)	CKSRYB104K16	C 831	(B,63,65)	CCSRCH101J50				
C 241	(A,88,13)	CKSRYB104K16	C 630	(A,33,98)	CCSRCH101J50	C 771	(A,102,120)	CKSRYB104K16	C 832	(B,61,65)	CKSRYB104K25				
C 242	(A,116,9)	CKSRYB104K16	C 636	(A,24,83)	CKSRYF104Z25	C 772	(A,99,116)	CEVW101M16	C 833	(B,13,70)	CCSRCH330J50				
C 243	(A,113,9)	CKSRYB104K16	C 637	(A,26,98)	CKSRYF104Z25	C 773	(B,85,120)	CKSQYB225K10	C 834	(B,16,70)	CKSRYB105K10				
C 244	(A,109,9)	CKSRYB104K16	C 638	(B,18,105)	CKSRYF104Z25	C 774	(B,92,121)	CKSQYB225K10	C 835	(B,20,70) 4.7 μ F	CCG1111				
C 245	(A,106,9)	CKSRYB104K16	C 639	(A,28,104)	CKSRYF104Z25	C 775	(A,96,121)	CKSRYB103K50	C 836	(B,16,59)	CKSRYF104Z25				
C 246	(A,103,9)	CKSRYB104K16	C 640	(B,28,99)	CKSRYF104Z25	C 776	(B,106,109)	CKSQYB225K10	C 837	(B,9,64)	CKSYB475K16				
C 247	(A,98,9)	CKSRYB104K16	C 642	(B,17,100)	CKSRYF104Z25	C 777	(A,86,118)	CEVW101M16	C 838	(B,12,59)	CKSRYF474Z16				
C 248	(A,93,9)	CKSRYB104K16	C 643	(B,27,97)	CKSRYF104Z25	C 778	(A,92,115)	CEVW220M6R3	C 839	(A,15,45) 220 μ F/10V	CCG11409				
C 249	(A,88,10) 10 μ F	CCG1171	C 644	(A,28,121)	CKSRYF104Z25	C 779	(B,83,114)	CKSYF106Z10	C 840	(A,17,61) 10 μ F	CCG1173				
C 250	(A,108,44) 10 μ F	CCG1171	C 645	(A,28,112) 10 μ F	CCG1173	C 780	(B,88,109)	CKSQYB225K10	C 841	(B,25,72) 4.7 μ F	CCG1111				
C 251	(A,124,27) 10 μ F	CCG1171	C 647	(A,19,113) 10 μ F	CCG1173	C 781	(B,81,115)	CKSQYB225K10	C 842	(B,26,55)	CKSRYB103K50				

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
C 843	(B,26.57)	CCSRCH470J50	C 909	(A,96,134)	CKSRYP104Z25	C 2443	(B,138,133)	CKSRYP105K6R3	C 2506	(A,18,130)	CEVW100M16	C 2506	(A,18,130)	CKSRYP105K6R3
C 844	(B,26.60)	CKSRYP103K10	C 910	(B,59,134)	CKSRYP104K25	C 2444	(A,144,110)	CKSRYP105K6R3	C 2507	(B,39,141)	CKSYB475K18	C 2507	(B,39,141)	CKSYB475K18
C 845	(B,26.62)	CKSRYP103K50	C 914	(A,82,145)	CKSRYP104Z25	C 2445	(A,147,98)	CEVW470M16	C 2508	(B,39,139)	CKSYB475K16	C 2508	(B,39,139)	CKSYB475K16
C 846	(B,64,72) 4.7μF	CCG1111	C 916	(B,54,132)	CKSQYB104K25	C 2446	(A,145,102)	CKSRYP105K6R3	C 2509	(A,52,130)	CEVW330M25	C 2509	(A,52,130)	CEVW330M25
C 847	(B,61,55)	CKSRYP103K50	C 918	(B,29,26)	CKSRYP103K50	C 2447	(A,148,102)	CKSRYP104K16	C 2510	(A,46,138)	CKSYB473K50	C 2510	(A,46,138)	CKSYB473K50
C 848	(B,61,56)	CCSRCH470J50	C 919	(B,70,93)	CKSRYP104K25	C 2448	(A,143,112)	CKSRYP105K6R3	C 2519	(B,170,117)	CKSRYP104Z25	C 2519	(B,170,117)	CKSRYP104Z25
C 849	(B,61,59)	CKSRYP105K10	C 920	(B,118,141)	CKSRYP104Z25	C 2449	(B,126,111)	CKSRYP105K6R3	C 2552	(A,13,143)	CCSRCH150J50	C 2552	(A,13,143)	CCSRCH150J50
C 850	(B,61,62)	CKSRYP103K50	C 950	(B,19,55) 4.7μF	CCG1111	C 2450	(A,118,108)	CEVW220M16	C 2553	(A,7,143)	CKSRYP104K16	C 2553	(A,7,143)	CKSRYP104K16
C 851	(A,20,57) 10μF	CCG1173	C 951	(B,19,52) 4.7μF	CCG1111	C 2451	(B,132,109)	CKSRYP104Z25	C 2554	(A,10,143)	CKSQYB225K10	C 2554	(A,10,143)	CKSQYB225K10
C 852	(B,19,49) 4.7μF	CCG1111	C 953	(B,34,49) 4.7μF	CCG1111	C 2452	(B,146,92)	CKSRYP105K6R3	C 2555	(A,12,145)	CKSSYP104K10	C 2555	(A,12,145)	CKSSYP104K10
C 853	(B,34,53)	CKSRYP474Z16	C 954	(A,32,51) 10μF	CCG1173	C 2453	(A,141,97)	CKSYB475K16	C 2556	(B,131,120)	CKSSYP104K10	C 2556	(B,131,120)	CKSSYP104K10
C 854	(B,31,52)	CKSRYP104Z25	C 955	(B,35,68) 4.7μF	CCG1111	C 2456	(A,141,117)	CKSYB475K16	C 2557	(B,130,118)	CKSSYP103K18	C 2557	(B,130,118)	CKSSYP103K18
C 855	(B,31,64)	CKSRYP104Z25	C 956	(A,32,56) 10μF	CCG1173	C 2457	(A,139,97)	CKSYB475K16	C 2558	(B,137,118)	CKSRYP103K50	C 2558	(B,137,118)	CKSRYP103K50
C 856	(B,35,64)	CKSRYP474Z16	C 957	(A,65,56) 10μF	CCG1173	C 2458	(A,139,117)	CKSYB475K16	C 2603	(A,162,109)	CEVW220M16	C 2603	(A,162,109)	CEVW220M16
C 857	(B,27,46)	CKSYB475K16	C 958	(A,65,51) 4.7μF	CCG1111	C 2459	(A,136,97)	CKSYB475K16	C 2604	(B,159,109)	CKSRYP473K50	C 2604	(B,159,109)	CKSRYP473K50
C 858	(B,69,53)	CKSRYP474Z16	C 959	(A,68,56) 10μF	CCG1173	C 2460	(A,136,117)	CKSYB475K16	C 2605	(B,161,108)	CKSRYP473K50	C 2605	(B,161,108)	CKSRYP473K50
C 859	(B,66,52)	CKSRYP104Z25	C 960	(A,68,51) 4.7μF	CCG1111	C 2461	(B,156,92)	CKSRYP332K50	C 2606	(B,165,104)	CKSRYP333K50	C 2606	(B,165,104)	CKSRYP333K50
C 860	(B,66,66)	CKSRYP104Z25	C 961	(A,82,150)	CKSRYP104Z25	C 2462	(A,133,97)	CKSYB475K16	C 2607	(B,168,102)	CKSRYP105K6R3	C 2607	(B,168,102)	CKSRYP105K6R3
C 861	(B,69,64)	CKSRYP474Z16	C 962	(A,33,95)	CKSRYP103K50	C 2463	(A,133,117)	CKSRYP475K16	C 2608	(B,168,105)	CCSRCH471J50	C 2608	(B,168,105)	CCSRCH471J50
C 862	(B,69,44)	CKSYB475K16	C 963	(B,54,149)	CKSRYP104K25	C 2464	(B,153,92)	CKSRYP474K10	C 2609	(B,169,109)	CKSRYP104Z25	C 2609	(B,169,109)	CKSRYP104Z25
C 863	(B,77,123)	CKSRYP104Z25	C 964	(B,54,150)	CKSRYP105K10	C 2465	(B,150,89)	CKSRYP104K16	C 2610	(A,167,109)	CEVW220M16	C 2610	(A,167,109)	CEVW220M16
C 865	(A,27,54) 10μF	CCG1173	C 971	(B,16,128)	CKSRYP222K50	C 2466	(A,127,109)	CKSRYP104K16	C 2611	(B,167,100)	CKSRYP105K6R3	C 2611	(B,167,100)	CKSRYP105K6R3
C 868	(B,38,49) 4.7μF	CCG1111	C 972	(B,17,130)	CKSRYP474K10	C 2467	(A,127,111)	CKSRYP104K16	C 2612	(B,159,118)	CKSRYP474K10	C 2612	(B,159,118)	CKSRYP474K10
C 869	(A,49,54) 330μF/6.3V	CCH1366	C 973	(B,8,122)	CKSQYB105K16	C 2468	(A,127,112)	CCSRCH100D50	C 2613	(B,167,117)	CCSRCH471J50	C 2613	(B,167,117)	CCSRCH471J50
C 870	(B,39,68) 4.7μF	CCG1111	C 974	(A,13,115)	CKSQYB103K50	C 2469	(B,150,88)	CKSRYP104K16	C 2614	(B,164,114)	CCSRCH680J50	C 2614	(B,164,114)	CCSRCH680J50
C 871	(A,49,63) 220μF/10V	CCH1409	C 975	(A,19,124)	CEVW470M16	C 2470	(A,127,95)	CCSRCH100D50	C 2615	(B,159,117)	CKSRYP105K6R3	C 2615	(B,159,117)	CKSRYP105K6R3
C 872	(A,61,55) 10μF	CCG1173	C 981	(B,74,78)	CKSRYP103K50	C 2471	(B,147,83)	CKSRYP104K16	C 2616	(B,167,115)	CKSRYP105K6R3	C 2616	(B,167,115)	CKSRYP105K6R3
C 873	(A,61,52) 10μF	CCG1173	C 982	(B,71,78)	CKSRYP104Z25	C 2472	(A,130,115)	CCSRCH100D50	C 2617	(B,121,95)	CKSRYP104K16	C 2617	(B,121,95)	CKSRYP104K16
C 875	(B,73,68) 4.7μF	CCG1111	C 983	(B,75,35)	CKSRYP103K50	C 2473	(B,148,86)	CKSRYP104K16	C 2618	(B,119,111)	CKSRYP104Z25	C 2618	(B,119,111)	CKSRYP104Z25
C 876	(A,84,54) 330μF/6.3V	CCH1366	C 984	(B,73,35)	CKSRYP104Z25	C 2474	(A,127,97)	CCSRCH100D50	C 2621	(B,32,121)	CKSSYP104Z16	C 2621	(B,32,121)	CKSSYP104Z16
C 877	(B,72,50) 4.7μF	CCG1111	C 985	(B,64,35)	CKSRYP103K50	C 2475	(A,129,118)	CCSRCH100D50	C 2637	(B,115,103)	CKSQYB105K10	C 2637	(B,115,103)	CKSQYB105K10
C 878	(A,86,65) 330μF/6.3V	CCH1366	C 986	(B,62,35)	CKSRYP104Z25	C 2476	(A,127,100)	CCSRCH100D50	C 2704	(B,33,13)	CKSRYP104K16	C 2704	(B,33,13)	CKSRYP104K16
C 879	(A,80,127) 220μF/25V	CCH1356	C 987	(A,92,82)	CKSRYP103K50	C 2477	(B,136,104)	CKSRYP105K6R3	C 2705	(B,40,26)	CKSRYP103K50	C 2705	(B,40,26)	CKSRYP103K50
C 880	(B,87,141)	CKSQYB104K16	C 988	(A,93,82)	CKSRYP104Z25	C 2478	(B,136,115)	CKSRYP105K6R3	C 2706	(B,36,20)	CKSRYP104K16	C 2706	(B,36,20)	CKSRYP104K16
C 881	(A,82,137) 2200μF	CCH1405	C 989	(A,92,84)	CKSRYP103K50	C 2479	(A,158,88)	CEVW101M16	C 2707	(B,42,30)	CKSRYP104Z25	C 2707	(B,42,30)	CKSRYP104Z25
C 882	(A,106,130)	CEVW101M16	C 990	(A,93,84)	CKSRYP104Z25	C 2480	(A,124,102)	CEVW100M16	C 2708	(B,40,20)	CKSRYP104K16	C 2708	(B,40,20)	CKSRYP104K16
C 883	(B,34,88)	CKSRYP103K50	C 2019	(B,158,103)	CKSRYP104K16	C 2481	(A,150,88)	CEVW101M16	C 2709	(A,36,20)	CKSRYP104K16	C 2709	(A,36,20)	CKSRYP104K16
C 884	(A,74,83)	CEVW101M16	C 2404	(B,117,89)	CKSRYP104K16	C 2482	(B,155,82)	CKSRYP222K50	C 2710	(A,39,20) (EW)	CKSRYP104K16	C 2710	(A,39,20) (EW)	CKSRYP104K16
C 885	(A,70,91)	CKSRYP104Z25	C 2407	(B,114,92)	CKSRYP104K16	C 2483	(B,137,100) 10μF	CCG1138	C 2711	(B,40,88)	CKSRYP104Z25	C 2711	(B,40,88)	CKSRYP104Z25
C 887	(A,77,88)	CKSRYP104Z25	C 2412	(A,130,128)	CEVW101M16	C 2484	(B,140,103)	CKSRYP105K6R3	C 2712	(B,36,103)	CKSRYP102K50	C 2712	(B,36,103)	CKSRYP102K50
C 888	(B,108,140)	CKSRYP103K50	C 2413	(B,131,136)	CKSRYP105K10	C 2485	(B,141,118) 10μF	CCG1138	C 2713	(A,43,20) (EW)	CKSRYP104K16	C 2713	(A,43,20) (EW)	CKSRYP104K16
C 889	(B,112,140)	CKSRYP103K50	C 2414	(B,130,125)	CKSRYP105K10	C 2486	(B,140,115)	CKSRYP105K6R3	C 7007	(A,68,114)	CKSRYP104Z25	C 7007	(A,68,114)	CKSRYP104Z25
C 890	(B,115,140)	CKSRYP104Z25	C 2418	(B,108,105)	CKSRYP105K6R3	C 2487	(B,143,104)	CCSRCH101J50	C 7014	(B,117,132)	CKSYB106K6R3	C 7014	(B,117,132)	CKSYB106K6R3
C 891	(B,148,121)	CKSRYP104Z25	C 2419	(B,133,136)	CCSRCH330J50	C 2488	(B,143,114)	CCSRCH101J50	C 7015	(B,121,129)	CKSYB106K6R3	C 7015	(B,121,129)	CKSYB106K6R3
C 892	(B,69,98)	CKSRYP103K50	C 2420	(B,133,125)	CCSRCH330J50	C 2489	(B,133,100)	CKSRYP104K16	C 7017	(B,115,126)	CCSRCH101J50	C 7017	(B,115,126)	CCSRCH101J50
C 893	(A,60,103)	CEVW101M16	C 2421	(B,111,105)	CKSRYP103K50	C 2490	(B,148,104)	CCSRCH101J50	C 7018	(B,121,120)	CKSRYP105K10	C 7018	(B,121,120)	CKSRYP105K10
C 894	(B,61,105)	CKSRYP103K50	C 2422	(B,139,137)	CCSRCH151J50	C 2491	(B,149,114)	CCSRCH101J50	C 7019	(B,112,120)	CKSYF106Z10	C 7019	(B,112,120)	CKSYF106Z10
C 895	(B,31,88)	CKSRYP104K16	C 2423	(B,139,123)	CCSRCH151J50	C 2492	(B,151,108)	CKSRYP104K16	C 7020	(B,114,119)	CKSRYP104K16	C 7020	(B,114,119)	CKSRYP104K16
C 896	(A,117,136)	CKSRYP103K50	C 2424	(B,112,108)	CCSRCH221J50	C 2493	(A,154,104)	CEVW100M16	C 7021	(A,125,123)	CCSRCH102J50	C 7021	(A,125,123)	CCSRCH102J50
C 897	(A,114,129)	CEVW101M16	C 2425	(B,136,135)	CCSRCH330J50	C 2494	(B,34,125)	CKSRYP105K10	C 7078	(B,85,114)	CKSRYP104K16	C 7078	(B,85,114)	CKSRYP104K16
C 898	(A,84,123)	CKSQYB104K16	C 2426	(B,135,125)	CCSRCH330J50	C 2495	(B,29,140)	CKSRYP105K10	C 7092	(B,91,115)	CKSRYP104K16	C 7092	(B,91,115)	CKSRYP104K16
C 899	(A,88,128) 220μF/25V	CCH1356	C 2431	(B,112,113)	CCSRCH471J50	C 2496	(B,34,127)	CKSRYP105K10						
C 900	(B,90,133)	CKSQYB104K16	C 2432	(B,138,130)	CKSRYP104Z25	C 2497	(B,31,140)	CKSRYP105K10						
C 901	(B,99,140)	CKSRYP103K50	C 2433	(A,138,127)	CEVW220M16	C 2498	(B,30,138)	CKSRYP105K10						
C 902	(A,98,127)	CEVW101M16	C 2434	(B,138,134)	CKSRYP105K6R3	C 2499	(B,38,126)	CKSRYP105K10						
C 903	(A,152,128) 10000μF/16V	CCH1412	C 2435	(B,138,127)	CKSRYP105K6R3	C 2500	(B,33,138)	CKSRYP105K10						
C 905	(A,68,103)	CEVW101M16	C 2436	(B,119,114)	CKSRYP105K6R3	C 2501	(B,37,126)	CKSRYP105K10						
C 906	(A,58,110)	CKSRYP104K16	C 2437	(A,151,106)	CKSRYP102K50	C 2503	(A,65,125) 2200μF/16V	CCH1405						
C 907	(A,58,112)	CKSRYP473K50	C 2441	(A,144,104)	CKSRYP105K6R3	C 2504	(A,72,131) 10μF	CCG1138						
C 908	(B,61,134)	CKSRYP103Z50	C 2442	(B,138,125)	CKSRYP105K6R3	C 2505	(B,42,139)	CKSRYP104K25						

**Mother Tuner Unit
Consists of
Relay PCB
Mother PCB
Connector PCB**

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
JKL											
Unit Number: CWM9946(AVIC-N2/XU/UC)											
Unit Name: Mother Tuner Unit											
MISCELLANEOUS											
IC 1001	(A,129,43) IC	NJM2137V	Q 1951	(B,111,85) Transistor	2SD2098	D 1602	(B,110,102) Diode	DAN202U	L 1405	(A,56,92) Inductor	LCYA1R0J2520
IC 1002	(B,106,27) IC	TA2050FS1	Q 1952	(B,109,45) Transistor	2SD2098	D 1821	(A,9,121) Diode	S1G-6904G2P	L 1406	(B,59,61) Inductor	LCTAW1R0J2520
IC 1101	(A,105,116) IC	HA12240FP	Q 2801	(A,90,25) Transistor	2SC4081	D 1822	(A,12,125) Diode	UDZS18(B)	L 1501	(A,81,58) Inductor	LCYA100J2520
IC 1102	(A,113,109) IC	TA2050FS1	Q 2831	(B,39,12) Transistor	DTC323TU	D 1823	(A,14,125) Diode	UDZS18(B)	L 1551	(B,82,55) Inductor	LCTAW101J2520
IC 1201	(A,31,118) IC	NJM2137V	Q 2832	(B,41,8) Transistor	DTC323TU	D 1824	(A,19,115) Diode	1SS355	L 1552	(B,90,52) Inductor	LCTAW100J2520
			Q 2833	(B,32,8) Transistor	DTC323TU	D 1871	(B,140,87) Diode	UDZSSR6(B)	L 1553	(B,103,41) Inductor	LCTAW100J2520
IC 1301	(B,92,25) IC	TA2050FS1	Q 2844	(B,34,12) Transistor	DTC323TU	D 1881	(B,10,115) Diode	UDZS18(B)	L 1554	(B,75,62) Inductor	LCTAW100J2520
IC 1302	(A,77,21) IC	NJM2137V	Q 2845	(B,29,12) Transistor	DTC323TU	D 1882	(A,58,116) Diode	1SS355	L 1555	(B,83,58) Inductor	LCTAW100J2520
IC 1352	(A,61,11) IC	NJM2137V	Q 2846	(B,27,8) Transistor	DTC323TU	D 1883	(B,10,126) Diode	UDZSSR6(B)	L 1601	(A,89,80) Inductor	CTF1379
IC 1401	(A,53,79) IC	NJM2391DL1-33	Q 2886	(B,87,26) Transistor	2SC4081	D 1884	(B,142,110) Diode	RB500V-40	L 1602	(B,71,95) Inductor	CTF1379
IC 1402	(A,51,107) IC	NJM4558E	D 1001	(B,138,10) Diode	UDZS6R8(B)	D 1902	(B,168,42) Diode	HZUR1(B3)	L 1603	(A,98,95) Inductor	CTF1379
IC 1501	(A,76,36) IC	CXA2069Q	D 1002	(B,138,17) Diode	UDZS6R8(B)	D 1903	(B,168,71) Diode	UDZSSR6(B)	L 1604	(A,69,105) Inductor	CTF1379
IC 1551	(A,97,43) IC	NJM2561F1	D 1003	(B,140,11) Diode	UDZS6R8(B)	D 1950	(B,105,84) Diode	UDZS13(B)	L 1766	(A,80,115) Inductor	CTF1379
IC 1552	(A,71,58) IC	NJM2561F1	D 1004	(B,135,15) Diode	UDZS6R8(B)	D 1951	(B,114,44) Diode	UDZSSR6(B)	L 1821	(A,8,117) Inductor	CTF1306
IC 1601	(A,83,81) IC	TC7SH04FUS1	D 1005	(B,136,9) Diode	UDZS6R8(B)	D 2801	(B,26,33) Diode	UDZS6R8(B)	L 1841	(A,146,114) Inductor	CTF1334
IC 1603	(A,83,100) IC	PES412B	D 1006	(B,140,17) Diode	UDZS6R8(B)	D 2802	(B,22,35) Diode	UDZS6R8(B)	L 1842	(B,148,109) Inductor	CTF1334
IC 1604	(A,94,87) IC	TC7SH08FUS1	D 1007	(B,133,15) Diode	UDZS6R8(B)	D 2811	(B,98,36) Diode	UDZS10(B)	L 1849	(B,156,116) Inductor	CTF1393
IC 1605	(A,100,90) IC	TC7SH08FUS1	D 1008	(B,133,8) Diode	UDZS6R8(B)	D 2812	(B,102,36) Diode	UDZS10(B)	L 1850	(A,161,113) Inductor	CTF1334
IC 1607	(A,92,117) IC	TC7SH08FUS1	D 1009	(B,131,15) Diode	UDZS6R8(B)	D 2813	(B,76,28) Diode	UDZSSR6(B)	L 1851	(B,150,100) Inductor	CTF1334
IC 1608	(A,71,95) IC	TC7SH04FUS1	D 1010	(B,131,7) Diode	UDZS6R8(B)	D 2814	(B,76,28) Diode	UDZSSR6(B)	L 1852	(B,140,108) Inductor	CTF1306
IC 1821	(A,18,123) IC	NJM2904M	D 1011	(B,129,15) Diode	UDZS6R8(B)	D 2886	(B,73,35) Diode	S1G-6904G2P	L 1853	(B,132,100) Inductor	CTF1306
IC 1871	(A,148,80) IC	S-812C33AMC-C2N	D 1012	(B,131,23) Diode	UMZ6R8N	D 2887	(B,73,32) Diode	S1G-6904G2P	L 1861	(B,170,106) Inductor	CTF1334
IC 1872	(A,153,88) IC	S-L2980A50MC-C7J	D 1013	(B,135,22) Diode	MA153	ZNR1401	(B,18,34) Surge Protector	RCCA-201Q31UA-PI	L 1862	(B,170,96) Inductor	CTF1334
IC 1901	(A,166,84) IC	NJM2391DL1-33	D 1014	(B,128,23) Diode	UMZ6R8N	L 1001	(A,141,33) Inductor	CTF1334	L 1871	(B,152,79) Inductor	CTF1334
IC 1902	(B,164,61) IC	M5237ML	D 1015	(B,123,22) Diode	UMZ6R8N	L 1002	(A,142,33) Inductor	CTF1334	L 1872	(A,166,90) Inductor	CTF1393
Q 1101	(A,121,108) Transistor	DTC124EU	D 1016	(B,126,18) Diode	UDZS6R8(B)	L 1003	(A,142,36) Inductor	CTF1334	L 1873	(B,158,88) Inductor	CTF1393
Q 1102	(A,120,115) Transistor	2SA1576	D 1017	(B,126,9) Diode	UDZS6R8(B)	L 1004	(A,143,36) Inductor	CTF1334	L 1881	(B,10,117) Inductor	CTF1306
Q 1201	(A,135,41) Transistor	2SA1037K	D 1018	(B,124,17) Diode	UDZS6R8(B)	L 1005	(A,133,31) Inductor	CTF1306	L 2811	(B,98,34) Inductor	CTF1557
Q 1202	(A,136,45) Transistor	2SC2412K	D 1019	(B,122,8) Diode	UMZ6R8N	L 1006	(A,136,31) Inductor	CTF1306	L 2812	(B,99,22) Inductor	CTF1557
Q 1551	(B,80,44) Transistor	2SA1576	D 1020	(B,118,9) Diode	UMZ6R8N	L 1007	(A,136,31) Inductor	CTF1306	L 2813	(B,42,19) Inductor	CTF1334
Q 1552	(B,67,39) Transistor	2SA1576	D 1021	(B,121,18) Diode	UMZ6R8N	L 1008	(A,136,33) Inductor	CTF1306	L 2814	(B,41,17) Inductor	CTF1334
Q 1555	(B,73,51) Transistor	2SC2412K	D 1022	(B,117,17) Diode	UMZ6R8N	L 1009	(A,116,21) Inductor	CTF1306	L 2831	(A,36,18) Inductor	CTF1306
Q 1556	(B,71,46) Transistor	2SC2412K	D 1023	(B,128,9) Diode	UDZS6R8(B)	L 1010	(A,118,21) Inductor	CTF1306	L 2832	(A,20,22) Inductor	CTF1306
Q 1557	(A,76,57) Transistor	2SC2412K	D 1101	(B,116,119) Diode	UMZ6R8N	L 1011	(A,118,25) Inductor	CTF1306	L 2833	(A,23,21) Inductor	CTF1306
Q 1558	(B,92,48) Transistor	2SC2412K	D 1102	(B,115,132) Diode	UMZ6R8N	L 1012	(A,117,28) Inductor	CTF1306	L 2834	(A,33,20) Inductor	CTF1306
Q 1559	(B,63,50) Transistor	FMG12	D 1103	(B,105,129) Diode	DAN202U	L 1013	(A,121,30) Inductor	CTF1334	L 2835	(A,23,23) Inductor	CTF1306
Q 1581	(B,59,86) Transistor	2SA1037K	D 1104	(B,105,133) Diode	DAP202U	L 1014	(A,122,30) Inductor	CTF1334	L 2836	(A,21,21) Inductor	CTF1306
Q 1582	(B,59,91) Transistor	2SC4081	D 1201	(A,138,35) Diode	1SS355	L 1015	(A,124,30) Inductor	CTF1334	L 2851	(B,71,21) Inductor	CTF1334
Q 1583	(B,65,88) Transistor	2SC4081	D 1202	(A,137,49) Diode	1SS355	L 1016	(A,123,22) Inductor	CTF1382	L 2852	(B,75,21) Inductor	CTF1334
Q 1601	(B,114,101) Transistor	2SC2412K	D 1203	(A,54,124) Diode	HZU12(B2)	L 1017	(A,127,21) Inductor	CTF1334	L 2853	(B,79,20) Inductor	CTF1334
Q 1607	(A,68,109) Transistor	2SC4081	D 1204	(A,56,124) Diode	HZU12(B2)	L 1018	(A,127,26) Inductor	CTF1382	L 2854	(B,71,19) Inductor	CTF1334
Q 1821	(B,16,118) Transistor	DTC114EU	D 1205	(A,43,124) Diode	HZU12(B2)	L 1019	(A,128,28) Inductor	CTF1382	L 2855	(B,75,19) Inductor	CTF1334
Q 1822	(B,21,134) Transistor	DTC114WK	D 1206	(A,49,124) Diode	HZU12(B2)	L 1020	(A,130,29) Inductor	CTF1334	L 2856	(B,79,18) Inductor	CTF1334
Q 1871	(B,150,86) Transistor	DTC114EU	D 1207	(A,32,131) Diode	UMZ6R8N	L 1021	(A,132,34) Inductor	CTF1334	L 2857	(B,88,11) Inductor	CTF1334
Q 1872	(B,146,83) Transistor	2SA1037K	D 1208	(A,35,131) Diode	UMZ6R8N	L 1022	(A,128,21) Inductor	CTF1334	L 2859	(A,93,17) Inductor	CTF1334
Q 1881	(A,9,126) Transistor	DTC114EU	D 1301	(B,108,19) Diode	UMZ6R8N	L 1026	(B,122,41) Inductor	CTF1399	L 2861	(B,75,23) Inductor	CTF1334
Q 1901	(A,78,77) Transistor	2SA1036K	D 1302	(B,93,14) Diode	UMZ6R8N	L 1101	(A,105,108) Inductor	LCYA2R2J2520	L 2862	(B,82,28) Inductor	CTF1334
Q 1902	(B,136,42) Transistor	2SA1036K	D 1303	(B,70,12) Diode	UMZ6R8N	L 1102	(A,112,118) Inductor	CTF1334	L 2886	(B,82,25) Inductor	CTF1295
Q 1903	(A,81,71) Transistor	DTC114EK	D 1304	(B,70,15) Diode	UMZ6R8N	L 1103	(A,113,118) Inductor	CTF1334	X 1601	(A,86,114) Radiator 12.5MHz	CSS1601
Q 1904	(B,146,41) Transistor	DTC114EK	D 1353	(B,50,8) Diode	UMZ6R8N	L 1104	(A,117,118) Inductor	CTF1334	VR1551	(A,96,48) Semi-fixed 10kΩ(B)	CCP1448
Q 1905	(B,165,34) Transistor	2SB1260	D 1354	(B,48,16) Diode	UMZ6R8N	L 1105	(A,115,118) Inductor	CTF1334	ΔFU1202	(A,44,118) Fuse 4A	CEK1288
Q 1906	(B,158,39) Transistor	DTC114EK	D 1401	(A,51,73) Diode	1SR154-400	L 1201	(A,35,113) Inductor	CTF1399	ΔFU1703	(A,86,122) Fuse 4A	CEK1288
Q 1907	(A,172,61) Transistor	2SB1629	D 1402	(A,51,70) Diode	1SR154-400	L 1301	(B,82,26) Inductor	CTF1399	ΔFU1704	(A,88,124) Fuse 4A	CEK1288
Q 1908	(A,173,42) Transistor	2SD2396	D 1403	(A,52,68) Diode	1SR154-400	L 1302	(B,90,18) Inductor	CTF1334	ΔFU1951	(A,118,87) Fuse 2A	CEK1284
Q 1909	(A,173,72) Transistor	2SD2396	D 1551	(B,101,46) Diode	MA153	L 1303	(B,86,12) Inductor	CTF1334	ΔFU2801	(A,24,20) Fuse 5A	CEK1289
			D 1552	(B,69,61) Diode	MA153	L 1304	(B,103,18) Inductor	CTF1334	Y 1401	(A,46,44) FM/AM Tuner Unit	CWE1651
			D 1553	(A,80,54) Diode	DAP202U	L 1305	(B,101,12) Inductor	CTF1334	GY1863	(A,169,113) Sensor	CSX1078
			D 1580	(A,70,89) Diode	MA111	L 1351	(A,87,21) Inductor	CTF1399	GY1865	(A,167,101) Sensor	CSX1074
			D 1581	(B,64,92) Diode	DAN202U	L 1401	(B,40,45) Inductor	LCTAW4R7J2520	EF1001	(A,139,32) EMI Filter	CCG1082
			D 1582	(B,67,84) Diode	UDZS6R2(B)	L 1403	(B,51,79) Inductor	LCTAW1R0J2520	EF1201	(A,30,131) EMI Filter	CCG1067

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
EF1301	(A,74,17) EMI Filter	CCG1067									
EF1351	(A,52,10) EMI Filter	CCG1067	R 1301	(A,82,21)	RS1/16S563J				R 1556	(B,70,39)	RS1/16S102J
EF1701	(A,91,125) EMI Filter	CCG1067	R 1302	(A,80,18)	RS1/16S473J	A	A		R 1557	(B,91,45)	RS1/16S103J
EF1901	(A,157,29) EMI Filter	CCG1172	R 1303	(A,85,17)	RS1/16S102J				R 1558	(B,76,57)	RS1/16S123J
EF1902	(A,146,39) EMI Filter	CCG1172	R 1304	(A,99,17)	RS1/16S102J				R 1559	(B,97,50)	RS1/16S123J
EF1903	(A,152,39) EMI Filter	CCG1172	R 1305	(B,86,16)	RS1/16S223J				R 1560	(B,72,58)	RS1/16S103J
EF2801	(A,70,32) EMI Filter	CCG1067	R 1306	(B,100,15)	RS1/16S223J				R 1561	(B,72,35)	RS1/16S473J
RESISTORS			R 1307	(B,88,18)	RS1/16S101J				R 1562	(B,72,31)	RS1/16S473J
R 1001	(B,127,31)	RS1/16S750J	R 1308	(B,100,19)	RS1/16S101J				R 1563	(B,69,50)	RS1/16S471J
R 1004	(A,128,37)	RS1/16S472J	R 1309	(B,77,20)	RS1/16S512J				R 1564	(B,69,47)	RS1/16S471J
R 1005	(A,129,38)	RS1/16S472J	R 1310	(B,81,20)	RS1/16S102J				R 1565	(B,72,56)	RS1/16S471J
R 1006	(A,126,43)	RS1/16S512J									
R 1007	(A,125,42)	RS1/16S102J	R 1311	(A,75,25)	RS1/16S101J				R 1566	(B,98,47)	RS1/16S471J
R 1008	(A,123,38)	RS1/16S101J	R 1312	(B,78,23)	RS1/16S512J				R 1567	(A,64,53)	RS1/16S821J
R 1009	(A,125,39)	RS1/16S512J	R 1313	(A,72,20)	RS1/16S472J	B	B		R 1568	(A,69,53)	RS1/16S821J
R 1010	(A,111,32)	RS1/16S101J	R 1314	(A,72,23)	RS1/16S472J				R 1569	(B,75,34)	RS1/16S821J
R 1011	(A,111,28)	RS1/16S101J	R 1315	(A,72,17)	RS1/16S103J				R 1570	(B,75,32)	RS1/16S821J
R 1012	(A,109,30)	RS1/16S223J									
R 1013	(A,109,29)	RS1/16S223J	R 1316	(B,78,14)	RS1/16S103J				R 1571	(B,70,53)	RS1/16S104J
R 1014	(A,108,32)	RS1/16S102J	R 1317	(B,75,17)	RS1/16S750J				R 1572	(B,65,53)	RS1/16S104J
R 1015	(A,109,27)	RS1/16S102J	R 1351	(A,65,11)	RS1/16S563J				R 1573	(A,108,39)	RS1/16S750J
R 1016	(A,129,48)	RS1/16S563J	R 1352	(A,66,8)	RS1/16S473J				R 1574	(A,67,55)	RS1/16S105J
R 1017	(A,126,49)	RS1/16S473J	R 1357	(B,61,10)	RS1/16S512J				R 1575	(A,65,88)	RS1/16S750J
R 1102	(A,101,112)	RS1/16S102J							R 1576	(A,70,68)	RS1/16S0R0J
R 1104	(A,104,123)	RS1/10S101J	R 1358	(B,65,10)	RS1/16S102J				R 1580	(B,98,43)	RS1/16S105J
R 1105	(A,102,123)	RS1/10S101J	R 1359	(A,58,15)	RS1/16S101J				R 1581	(B,55,85)	RS1/16S821J
R 1106	(A,103,126)	RS1/10S620J	R 1360	(B,62,13)	RS1/16S512J				R 1582	(B,56,90)	RS1/16S223J
R 1107	(A,113,115)	RS1/16S102J	R 1363	(A,56,10)	RS1/16S472J	C	C		R 1583	(B,62,89)	RS1/16S473J
R 1108	(A,115,115)	RS1/16S102J	R 1364	(A,56,13)	RS1/16S472J						
R 1109	(B,112,116)	RS1/16S223J	R 1365	(B,52,10)	RS1/16S103J				R 1584	(B,59,89)	RS1/16S223J
R 1110	(B,116,116)	RS1/16S223J	R 1366	(B,51,12)	RS1/16S103J				R 1585	(B,70,90)	RS1/16S563J
R 1111	(A,111,115)	RS1/16S101J	R 1367	(A,53,12)	RS1/16S750J				R 1586	(B,69,86)	RS1/16S223J
R 1112	(A,117,115)	RS1/16S101J	R 1402	(B,47,110)	RS1/16S0R0J				R 1587	(B,62,84)	RS1/16S473J
R 1113	(A,120,112)	RS1/16S332J	R 1403	(B,49,102)	RS1/16S0R0J				R 1588	(A,70,86)	RS1/16S101J
R 1114	(A,120,111)	RS1/16S682J									
R 1115	(A,120,119)	RS1/10S222J	R 1404	(B,49,59)	RS1/16S681J				R 1601	(B,115,105)	RS1/16S272J
R 1118	(A,101,111)	RS1/16S0R0J	R 1405	(B,49,56)	RS1/16S681J				R 1602	(B,117,101)	RS1/16S101J
R 1119	(A,101,109)	RS1/16S0R0J	R 1407	(A,56,106)	RS1/16S103J				R 1603	(B,107,102)	RS1/16S333J
R 1201	(A,135,36)	RS1/16S473J	R 1408	(A,58,106)	RS1/16S103J				R 1604	(B,113,105)	RS1/16S473J
R 1202	(A,29,117)	RS1/16S563J	R 1409	(A,52,111)	RS1/16S273J	D	D		R 1607	(A,90,81)	RS1/16S104J
R 1203	(A,29,114)	RS1/16S473J	R 1410	(B,53,102)	RS1/16S273J				R 1610	(A,94,83)	RS1/16S681J
R 1204	(A,136,38)	RS1/16S473J	R 1412	(A,56,110)	RS1/16S183J				R 1611	(A,100,87)	RS1/16S681J
R 1205	(A,138,42)	RS1/16S473J	R 1413	(A,56,108)	RS1/16S183J				R 1612	(A,84,85)	RAB4C681J
R 1206	(A,138,39)	RS1/16S473J	R 1415	(B,51,107)	RS1/16S753J				R 1613	(B,97,109)	RS1/16S472J
R 1207	(A,136,48)	RS1/16S473J	R 1416	(B,53,109)	RS1/16S753J				R 1614	(A,94,89)	RS1/16S681J
R 1208	(B,29,118)	RS1/16S512J									
R 1209	(B,31,118)	RS1/16S102J	R 1426	(B,49,81)	RS1/16S681J				R 1615	(A,80,86)	RS1/16S473J
R 1210	(B,35,119)	RS1/16S101J	R 1428	(B,49,54)	RS1/16S681J				R 1617	(A,73,90)	RS1/16S681J
R 1211	(B,33,121)	RS1/16S512J	R 1429	(B,49,64)	RS1/16S681J				R 1618	(A,96,92)	RAB4C681J
R 1212	(A,31,123)	RS1/16S472J	R 1431	(B,49,61)	RS1/16S681J				R 1619	(A,98,88)	RS1/16S104J
R 1213	(A,34,123)	RS1/16S0R0J	R 1434	(B,41,48)	RS1/16S0R0J				R 1621	(A,75,82)	RS1/16S470J
R 1214	(B,55,126)	RS1/16S0R0J									
R 1215	(B,57,127)	RS1/16S0R0J	R 1501	(A,63,35)	RS1/16S0R0J	E	E		R 1622	(A,76,82)	RS1/16S470J
R 1216	(B,43,124)	RS1/16S0R0J	R 1502	(A,61,34)	RS1/16S0R0J				R 1623	(A,76,86)	RS1/16S103J
R 1217	(B,49,124)	RS1/16S0R0J	R 1505	(A,91,30)	RS1/16S562J				R 1624	(A,76,84)	RS1/16S103J
R 1218	(B,30,129)	RS1/16S103J	R 1506	(A,88,26)	RS1/16S562J				R 1625	(A,96,98)	RAB4C681J
R 1219	(B,32,133)	RS1/16S103J	R 1507	(A,91,34)	RS1/16S562J				R 1626	(A,72,99)	RAB4C681J
R 1220	(A,33,128)	RS1/16S750J									
			R 1508	(A,91,35)	RS1/16S562J				R 1627	(B,70,92)	RS1/16S563J
			R 1509	(A,91,40)	RS1/16S562J				R 1629	(A,96,102)	RAB4C681J
			R 1510	(A,91,41)	RS1/16S562J				R 1630	(A,96,104)	RS1/16S473J
			R 1511	(A,85,47)	RS1/16S101J				R 1631	(A,97,107)	RAB4C681J
			R 1512	(A,86,47)	RS1/16S101J				R 1632	(A,67,112)	RS1/16S473J
			R 1551	(B,69,34)	RS1/16S0R0J	F	F		R 1633	(A,67,107)	RS1/16S473J
			R 1552	(B,69,32)	RS1/16S0R0J				R 1634	(A,72,109)	RAB4C681J
			R 1553	(B,76,44)	RS1/16S182J				R 1635	(A,97,111)	RAB4C681J
			R 1554	(B,72,42)	RS1/16S182J				R 1636	(A,92,122)	RS1/16S473J
			R 1555	(B,78,47)	RS1/16S102J				R 1637	(B,97,118)	RS1/16S473J
									R 1638	(B,71,97)	RS1/16S104J
									R 1640	(B,79,109)	RS1/16S681J
									R 1641	(A,92,114)	RS1/16S681J
									R 1642	(B,96,111)	RS1/16S473J
									R 1643	(B,72,108)	RS1/16S473J
									R 1644	(B,80,111)	RS1/16S473J
									R 1647	(B,76,109)	RS1/16S473J
									R 1651	(B,77,116)	RS1/16S473J
									R 1652	(B,79,116)	RS1/16S473J
									R 1657	(B,72,110)	RS1/16S473J
									R 1658	(B,72,112)	RS1/16S473J
									R 1659	(A,82,79)	RS1/16S473J
									R 1661	(A,90,85)	RS1/16S681J
									R 1662	(A,87,85)	RS1/16S681J
									R 1663	(B,88,88)	RS1/16S681J
									R 1664	(A,88,85)	RS1/16S681J
									R 1621	(A,21,122)	RS1/16S0R0J
									R 1622	(B,14,123)	RS1/16S333J
									R 1623	(A,12,121)	RS1/16S203J
									R 1624	(A,20,117)	RS1/16S822J
									R 1625	(A,19,113)	RS1/16S202J
									R 1626	(A,16,115)	RS1/16S564J
									R 1627	(A,17,117)	RS1/16S513J
									R 1628	(A,14,119)	RS1/16S513J
									R 1629	(B,24,118)	RS1/16S102J
									R 1630	(B,22,117)	RS1/16S102J
									R 1631	(B,21,122)	RS1/16S104J
									R 1632	(B,21,126)	RS1/16S513J
									R 1633	(B,16,127)	RS1/16S473J
									R 1634	(B,18,127)	RS1/16S563J
									R 1635	(A,20,128)	RS1/16S104J
									R 1641	(A,160,110)	RS1/16S104J
									R 1643	(B,144,108)	RS1/16S101J
									R 1661	(B,165,122)	RS1/10S105J
									R 1662	(B,164,115)	RS1/10S151J
									R 1671	(B,148,79)	RS1/10S103J
									R 1672	(B,149,82)	RS1/10S103J
									R 1673	(B,143,84)	RN1/16SE1001D
									R 1674	(B,139,84)	RN1/16SE1101D
									R 1675	(B,140,89)	RN1/16SE1001D
									R 1681	(B,10,120)	RS1/16S102J
									R 1901	(A,78,74)	RS1/16S102J
									R 1902	(B,141,42)	RS1/16S102J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 2833	(B, 42, 12)	RS1/16S223J	C 1033	(A, 126, 46)	CKSRFB104K16	C 1442	(A, 53, 60)	CEVW221M16	C 1623	(B, 111, 105)	CKSRFB103K50						
R 2834	(B, 43, 8)	RS1/16S223J	C 1034	(A, 101, 22)	CEVW100M16	C 1501	(A, 62, 30)	CKSQYB105K16	C 1821	(A, 11, 118)	CKSRFB223K16						
R 2835	(B, 44, 12)	RS1/16S471J	C 1035	(A, 107, 22)	CEVW220M16	C 1504	(A, 79, 25)	CKSQYB105K16	C 1822	(B, 17, 124)	CKSRFB104K25						
R 2836	(B, 45, 8)	RS1/16S471J	C 1101	(A, 103, 120)	CKSRFB104K16	C 1506	(A, 95, 29)	CKSQYB105K16	C 1823	(B, 17, 122)	CKSRFB103K50						
R 2837	(A, 39, 7)	RS1/16S820J	C 1102	(A, 110, 101)	CEVW100M16	C 1506	(A, 90, 28)	CKSQYB105K16	C 1824	(A, 14, 117)	CKSRFB104K16						
			C 1103	(A, 116, 101)	CEVW220M16	C 1507	(A, 60, 47)	CKSQYB105K16	C 1825	(B, 23, 122)	CKSRFB102K50						
R 2838	(A, 33, 16)	RS1/16S820J	C 1106	(B, 111, 112)	CKSRFB105K10	C 1508	(A, 60, 45)	CKSQYB105K16	C 1826	(A, 21, 119)	CKSRFB104Z25						
R 2839	(B, 35, 8)	RS1/16S223J	C 1107	(B, 113, 112)	CKSRFB105K10	C 1509	(A, 91, 32)	CKSQYB105K16	C 1862	(B, 161, 122)	CKSRFB103K50						
R 2840	(A, 35, 12)	RS1/16S223J	C 1108	(B, 115, 112)	CKSRFB105K10	C 1510	(A, 95, 35)	CKSQYB105K16	C 1863	(B, 163, 111)	CKSRFB106K6R3						
R 2841	(B, 37, 8)	RS1/16S471J	C 1109	(B, 117, 112)	CKSRFB105K10	C 1511	(A, 95, 37)	CKSQYB105K16	C 1864	(B, 168, 98)	CKSRFB104K25						
R 2842	(B, 32, 13)	RS1/16S471J	C 1112	(B, 117, 123)	CCSRCH471J50	C 1512	(A, 94, 41)	CKSQYB105K16	C 1865	(A, 166, 94)	CCSRCH102J50						
R 2843	(A, 27, 16)	RS1/16S820J	C 1113	(B, 119, 121)	CCSRCH471J50	C 1513	(A, 90, 44)	CKSQYB105K16	C 1866	(A, 173, 96)	CKSRFB104K16						
R 2844	(A, 27, 7)	RS1/16S820J	C 1117	(B, 107, 123)	CKSRFB104K25	C 1514	(A, 92, 44)	CKSQYB105K16	C 1867	(A, 174, 107)	CKSRFB105K10						
R 2845	(A, 30, 17)	RS1/16S223J	C 1201	(A, 32, 114)	CKSRFB104K16	C 1515	(A, 78, 47)	CKSRFB103K50	C 1871	(B, 161, 87)	CKSRFB103Z50						
R 2846	(A, 25, 8)	RS1/16S223J	C 1202	(A, 36, 117)	CEVW100M16	C 1516	(A, 82, 52)	CEVW220M16	C 1872	(A, 146, 77)	CKSRFB104K25						
R 2847	(B, 26, 13)	RS1/16S471J	C 1203	(A, 27, 114)	CKSRFB105K10	C 1517	(A, 61, 40)	CEVW100M16	C 1873	(A, 147, 77)	CKSRFB334K10						
R 2848	(B, 30, 8)	RS1/16S471J	C 1204	(A, 138, 37)	CKSRFB103K50	C 1551	(B, 91, 43)	CCSRCH7R0D50	C 1874	(A, 163, 90)	CKSRFB103Z50						
R 2849	(A, 92, 23)	RS1/16SS681J	C 1206	(B, 33, 123)	CCSRCH3R0C50	C 1552	(B, 79, 35)	CKSRFB222K50	C 1875	(A, 153, 79)	CEVW101M16						
R 2850	(A, 89, 31)	RS1/16S471J	C 1208	(A, 35, 126)	CKSRFB106K6R3	C 1553	(B, 79, 31)	CKSRFB222K50	C 1876	(A, 140, 78)	CEVW470M16						
R 2851	(A, 54, 9)	RS1/16S0R0J	C 1209	(A, 30, 127)	CKSRFB106K6R3	C 1554	(B, 76, 48)	CKSRFB222K50	C 1877	(A, 154, 91)	CKSRFB104K16						
R 2852	(A, 61, 10)	RS1/16S0R0J	C 1210	(B, 33, 131)	CKSRFB473K50	C 1555	(B, 74, 46)	CKSRFB222K50	C 1878	(A, 150, 88)	CKSRFB104Z25						
R 2853	(A, 60, 9)	RS1/16S0R0J	C 1301	(A, 90, 22)	CEVW100M16	C 1556	(B, 76, 56)	CCSRCH3R0C50	C 1879	(A, 156, 91)	CKSRFB474K10						
R 2854	(A, 54, 7)	RS1/16S0R0J	C 1302	(A, 96, 22)	CEVW220M16	C 1557	(A, 92, 54)	CEVW101M16	C 1880	(A, 144, 77)	CKSRFB104K25						
R 2855	(A, 60, 5)	RS1/16S0R0J	C 1303	(A, 81, 24)	CKSRFB104K16	C 1558	(B, 77, 52)	CKSRFB103K50	C 1881	(B, 10, 123)	CKSRFB104K25						
R 2856	(A, 54, 5)	RS1/16S0R0J	C 1304	(A, 85, 22)	CEVW100M16	C 1559	(B, 75, 36)	CKSQYB225K10	C 1882	(A, 146, 88)	CEVW470M16						
R 2873	(B, 92, 10)	RS1/16S0R0J	C 1305	(A, 82, 18)	CKSRFB105K10	C 1560	(B, 75, 30)	CKSQYB225K10	C 1901	(A, 158, 36)	CEVW101M16						
R 2886	(B, 84, 28)	RS1/16S473J	C 1308	(B, 86, 24)	CKSRFB105K10	C 1561	(A, 70, 49)	CEVW100M16	C 1902	(A, 145, 46)	CEVW101M16						
R 2887	(B, 86, 29)	RS1/16S104J	C 1307	(B, 86, 19)	CKSRFB105K10	C 1562	(A, 65, 49)	CEVW100M16	C 1903	(A, 78, 80)	CKSRFB104K16						
R 2888	(B, 80, 28)	RS1/10S102J	C 1308	(B, 96, 19)	CKSRFB105K10	C 1563	(B, 96, 45)	CKSYB475K16	C 1904	(B, 132, 41)	CKSRFB104K25						
			C 1309	(B, 96, 18)	CKSRFB105K10	C 1564	(A, 71, 56)	CKSYB475K16	C 1905	(A, 143, 40)	CKSRFB103K50						
			C 1311	(B, 77, 23)	CCSRCH3R0C50	C 1565	(A, 98, 40)	CKSRFB103K50	C 1906	(A, 161, 30)	CKSRFB103K50						
			C 1313	(B, 74, 22)	CKSYB106K6R3	C 1566	(A, 74, 60)	CKSRFB103K50	C 1907	(B, 170, 34)	CKSRFB103K50						
			C 1314	(A, 70, 19)	CKSYB106K6R3	C 1567	(A, 103, 35)	CEVW470M16	C 1908	(A, 166, 31)	CEVW101M16						
			C 1315	(B, 99, 8)	CCSRCH471J50	C 1568	(A, 75, 65)	CEVW470M16	C 1910	(A, 166, 45)	CEVW101M16						
			C 1316	(B, 78, 16)	CKSRFB473K50	C 1569	(A, 102, 48)	CEVW330M10	C 1911	(B, 168, 61)	CKSRFB104K25						
			C 1318	(B, 95, 8)	CCSRCH471J50	C 1570	(A, 103, 42)	CEVW101M4	C 1912	(B, 169, 44)	CKSRFB103K50						
			C 1353	(A, 85, 13)	CKSRFB104K16	C 1571	(A, 83, 84)	CEVW330M10	C 1913	(B, 170, 56)	CKSRFB103K50						
			C 1354	(A, 64, 17)	CEVW100M16	C 1572	(A, 86, 84)	CEVW101M4	C 1914	(B, 169, 39)	CKSRFB103K50						
			C 1355	(A, 64, 8)	CKSRFB105K10	C 1575	(B, 80, 47)	CKSRFB104K25	C 1915	(A, 166, 53)	CEVW101M16						
			C 1361	(B, 61, 13)	CCSRCH3R0C50	C 1576	(B, 67, 42)	CKSRFB104K25	C 1916	(A, 166, 38)	CEVW101M16						
			C 1363	(A, 54, 15)	CKSYB106K6R3	C 1577	(A, 76, 51)	CEVW101M16	C 1917	(A, 155, 46)	CEVW101M16						
			C 1364	(A, 53, 7)	CKSYB106K6R3	C 1580	(A, 61, 88) 22μF	COG1183	C 1918	(A, 155, 41)	CKSRFB103K50						
			C 1365	(B, 51, 14)	CKSRFB473K50	C 1601	(B, 119, 101)	CKSRFB103K50	C 1919	(A, 165, 74)	CEVW101M16						
			C 1401	(B, 46, 107)	CKSQYB225K10	C 1602	(A, 81, 82)	CKSRFB104K16	C 1920	(B, 169, 73)	CKSRFB103K50						
			C 1402	(B, 50, 100)	CKSQYB225K10	C 1603	(A, 91, 120)	CKSRFB103K50	C 1921	(B, 169, 69)	CKSRFB103K50						
			C 1404	(B, 50, 88)	CKSYB475K16	C 1604	(A, 84, 76)	CEVW100M16	C 1922	(A, 173, 84)	CKSRFB104K16						
			C 1405	(B, 42, 79)	CKSRFB103K50	C 1605	(A, 87, 79)	CKSRFB103K50	C 1923	(A, 166, 65)	CEVW470M16						
			C 1407	(B, 42, 88)	CKSRFB103K50	C 1606	(A, 94, 120)	CKSRFB222K50	C 1924	(A, 173, 86)	CKSRFB103K50						
			C 1408	(B, 42, 51)	CKSRFB103K50	C 1607	(A, 87, 81)	CKSRFB103K50	C 1925	(A, 172, 91)	CEVW220M16						
			C 1410	(A, 51, 92)	CEVW470M6R3	C 1610	(A, 73, 93)	CKSRFB102K50	C 1950	(A, 122, 94)	CEVW101M16						
			C 1411	(A, 53, 49)	CEVW221M16	C 1611	(A, 95, 95)	CKSRFB102K50	C 1951	(B, 108, 85)	CKSRFB103K50						
			C 1415	(B, 57, 63)	CKSRFB103K50	C 1612	(A, 72, 106)	CKSRFB102K50	C 1952	(B, 115, 86)	CKSRFB103K50						
			C 1418	(A, 57, 100)	CEVW100M16	C 1613	(A, 82, 113)	CKSRFB102K50	C 1953	(A, 127, 87)	CEVW101M16						
			C 1423	(A, 51, 85)	CEVW220M16	C 1614	(B, 84, 111)	CKSRFB105K10	C 1954	(A, 113, 39)	CEVW101M16						
			C 1424	(A, 56, 83)	CKSRFB103K50	C 1615	(A, 90, 115)	CKSRFB103K50	C 1955	(B, 112, 44)	CKSRFB103K50						
			C 1425	(B, 51, 105)	CCSRCH6R0D50	C 1616	(A, 70, 93)	CKSRFB104K16	C 1956	(B, 104, 44)	CKSRFB103K50						
			C 1427	(B, 53, 111)	CCSRCH6R0D50	C 1619	(A, 102, 90)	CKSRFB104K16	C 1957	(A, 111, 47)	CEVW101M16						
			C 1429	(A, 55, 104)	CKSRFB104K16	C 1620	(A, 96, 88)	CKSRFB104K16	C 2813	(B, 23, 31)	CKSRFB104Z25						
			C 1430	(A, 56, 74)	CKSRFB104K16	C 1621	(A, 94, 117)	CKSRFB104K16	C 2814	(B, 18, 32)	CKSRFB104Z25						
			C 1431	(A, 51, 101)	CEVW100M16	C 1622	(B, 112, 98)	CKSRFB103K50	C 2831	(A, 38, 20)	CEVW100M16						

CAPACITORS

C 1001	(B, 141, 26)	CCSRCH101J50	C 1313	(B, 74, 22)	CKSYB106K6R3	C 1566	(A, 74, 60)	CKSRFB103K50	C 1907	(B, 170, 34)	CKSRFB103K50
C 1002	(B, 143, 26)	CCSRCH101J50	C 1314	(A, 70, 19)	CKSYB106K6R3	C 1567	(A, 103, 35)	CEVW470M16	C 1908	(A, 166, 31)	CEVW101M16
C 1003	(B, 142, 11)	CCSRCH101J50	C 1315	(B, 99, 8)	CCSRCH471J50	C 1568	(A, 75, 65)	CEVW470M16	C 1910	(A, 166, 45)	CEVW101M16
C 1004	(B, 143, 17)	CCSRCH101J50	C 1316	(B, 78, 16)	CKSRFB473K50	C 1569	(A, 102, 48)	CEVW330M10	C 1911	(B, 168, 61)	CKSRFB104K25
C 1005	(B, 123, 26)	CCSRCH101J50	C 1318	(B, 95, 8)	CCSRCH471J50	C 1570	(A, 103, 42)	CEVW101M4	C 1912	(B, 169, 44)	CKSRFB103K50
C 1006	(B, 139, 26)	CKSRFB104Z25	C 1353	(A, 85, 13)	CKSRFB104K16	C 1571	(A, 83, 84)	CEVW330M10	C 1913	(B, 170, 56)	CKSRFB103K50
C 1007	(B, 121, 26)	CCSRCH101J50	C 1354	(A, 64, 17)	CEVW100M16	C 1572	(A, 86, 84)	CEVW101M4	C 1914	(B, 169, 39)	CKSRFB103K50
C 1008	(B, 137, 26)	CKSRFB104Z25	C 1355	(A, 64, 8)	CKSRFB105K10	C 1575	(B, 80, 47)	CKSRFB104K25	C 1915	(A, 166, 53)	CEVW101M16
C 1009	(B, 119, 26)	CCSRCH101J50	C 1361	(B, 61, 13)	CCSRCH3R0C50	C 1576	(B, 67, 42)	CKSRFB104K25	C 1916	(A, 166, 38)	CEVW101M16
C 1010	(B, 135, 26)	CKSRFB104Z25	C 1363	(A, 54, 15)	CKSYB106K6R3	C 1577	(A, 76, 51)	CEVW101M16	C 1917	(A, 155, 46)	CEVW101M16
C 1011	(B, 120, 12)	CCSRCH471J50	C 1364	(A, 53, 7)	CKSYB106K6R3	C 1580	(A, 61, 88) 22μF	COG1183	C 1918	(A, 155, 41)	CKSRFB103K50
C 1012	(B, 133, 26)	CCSRCH101J50	C 1365	(B, 51, 14)	CKSRFB473K50	C 1601	(B, 119, 10)	CKSRFB103K50	C 1919	(A, 165, 74)	CEVW101M16
C 1013	(B, 118, 25)	CCSRCH681J50	C 1401	(B, 46, 107)	CKSQYB225K10	C 1602	(A, 81, 82)	CKSRFB104K16	C 1920	(B, 169, 73)	CKSRFB103K50
C 1014	(B, 131, 26)	CCSRCH101J50	C 1402	(B, 50, 100)	CKSQYB225K10	C 1603	(A, 91, 120)	CKSRFB103K50	C 1921	(B, 169, 69)	CKSRFB103K50
C 1015	(B, 120, 23)	CCSRCH681J50	C 1404	(B, 50, 88)	CKSYB475K16	C 1604	(A, 84, 76)	CEVW100M16	C 1922	(A, 173, 84)	CKSRFB104K16
C 1016	(B, 129, 26)	CCSRCH101J50	C 1405	(B, 42, 79)	CKSRFB103K50	C 1605	(A, 87, 79)	CKSRFB103K50	C 1923	(A, 166, 65)	CEVW470M16
C 1017	(B, 118, 14)	CCSRCH681J50	C 1407	(B, 42, 88)	CKSRFB103K50	C 1606	(A, 94, 120)	CKSRFB222K50	C 1924	(A, 173, 86)	CKSRFB103K50
C 1018	(B, 127, 26)	CCSRCH101J50	C 1408	(B, 42, 51)	CKSRFB103K50	C 1607	(A, 87, 81)	CKSRFB103K50	C 1925	(A, 172, 91)	CEVW220M16
C 1019	(A, 119, 18)	CCSRCH681J50	C 1410	(A, 51, 92)	CEVW470M6R3	C 1610	(A, 73, 93)	CKSRFB102K50	C 1950	(A, 122, 94)	CEVW101M16
C 1020	(B, 125, 26)	CCSRCH101J50	C 1411	(A, 53, 49)	CEVW221M16	C 1611	(A, 95, 95)	CKSRFB102K50	C 1951	(B, 108, 85)	CKSRFB103K50
C 1022	(A, 130, 33)	CKSYB106K6R3	C 1415	(B, 57, 63)	CKSRFB103K50	C 1612	(A, 72, 106)	CKSRFB102K50	C 1952	(B, 115, 86)	CKSRFB103K50
C 1023	(A, 126, 35)	CKSYB106K6R3	C 1418	(A, 57, 100)	CEVW100M16	C 1613	(A, 82, 113)	CKSRFB102K50	C 1953	(A, 127, 87)	CEVW101M16
C 1026	(A, 126, 39)	CCSRCH3R0C50	C 1423	(A, 51, 85)	CEVW220M16	C 1614	(B, 84, 111)	CKSRFB105K10	C 1954	(A, 113, 39)	CEVW101M16
C 1027	(A, 102, 30)	CKSRFB105K10	C 1424	(A, 56, 83)	CKSRFB103K50	C 1615	(A, 90, 115)	CKSRFB103K50	C 1955	(B, 112, 44)	CKSRFB103K50
C 1028	(A, 106, 30)	CKSRFB105K10	C 1425	(B, 51, 105)	CCSRCH6R0D50	C 1616	(A, 70, 93)	CKSRFB104K16	C 1956	(B, 104, 44)	CKSRFB103K50
C 1029	(A, 106, 29)	CKSRFB105K10	C 1427	(B, 53, 111)	CCSRCH6R0D50	C 1619	(A, 102, 90)	CKSRFB104K16	C 1957	(A, 111, 47)	CEVW101M16
C 1030	(A, 106, 27)	CKSRFB105K10	C 1429	(A, 55, 104)	CKSRFB103K50	C 1620	(A, 96, 88)	CKSRFB104K16	C 2813	(B, 23, 31)	CKSRFB104Z25
C 1031	(A, 129, 49)	CKSRFB105K10	C 1430	(A, 56, 74)	CKSRFB104K16	C 1621	(A, 94, 117)	CKSRFB104K16	C 2814	(B, 18, 32)	CKSRFB104Z25
C 1032	(A, 122, 43)	CEVW100M16	C 1431	(A, 51, 101)	CEVW100M16	C 1622	(B, 112, 98)	CKSRFB103K50	C 2831	(A, 38, 20)	CEVW100M16

AV 12X/UC

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
L 1804	(B,121,73) Inductor	LCTAW1R0J2520	EF1902	(A,146,39) EMI Filter	CCG1172	R 1305	(B,86,16)	RS1/16S223J	R 1506	(A,88,26)	RS1/16S562J
L 1821	(A,8,117) Inductor	CTF1306	EF1903	(A,152,39) EMI Filter	CCG1172	R 1306	(B,100,15)	RS1/16S223J	R 1507	(A,91,34)	RS1/16S562J
L 1841	(A,146,114) Inductor	CTF1334	EF2801	(A,70,32) EMI Filter	CCG1067	R 1307	(B,88,18)	RS1/16S101J	R 1508	(A,91,35)	RS1/16S562J
L 1842	(B,148,109) Inductor	CTF1334	RESISTORS			R 1308	(B,100,19)	RS1/16S101J	R 1509	(A,91,40)	RS1/16S562J
L 1843	(A,147,107) Inductor	CTF1334				R 1309	(B,77,20)	RS1/16S512J	R 1510	(A,91,41)	RS1/16S562J
L 1844	(A,147,105) Inductor	CTF1334				R 1310	(B,81,20)	RS1/16S102J	R 1511	(A,85,47)	RS1/16S101J
L 1845	(B,148,106) Inductor	CTF1334				R 1311	(A,75,25)	RS1/16S101J	R 1512	(A,86,47)	RS1/16S101J
L 1846	(B,148,104) Inductor	CTF1334	R 1001	(B,127,31)	RS1/16S750J	R 1312	(B,78,23)	RS1/16S512J	R 1551	(B,69,34)	RS1/16S0R0J
L 1847	(A,147,98) Inductor	CTF1393	R 1004	(A,128,37)	RS1/16S472J	R 1313	(A,72,20)	RS1/16S472J	R 1552	(B,69,32)	RS1/16S0R0J
L 1848	(A,155,96) Inductor	CTF1393	R 1005	(A,129,38)	RS1/16S472J	R 1314	(A,72,23)	RS1/16S472J	R 1553	(B,76,44)	RS1/16S182J
L 1849	(B,156,116) Inductor	CTF1393	R 1006	(A,126,43)	RS1/16S512J	R 1315	(A,72,17)	RS1/16S103J	R 1554	(B,72,42)	RS1/16S182J
L 1850	(A,161,113) Inductor	CTF1334	R 1007	(A,125,42)	RS1/16S102J	R 1316	(B,78,14)	RS1/16S103J	R 1555	(B,78,47)	RS1/16S102J
L 1851	(B,150,100) Inductor	CTF1334	R 1008	(A,123,38)	RS1/16S101J	R 1317	(B,75,17)	RS1/16S750J	R 1556	(B,70,39)	RS1/16S102J
L 1852	(B,140,108) Inductor	CTF1306	R 1009	(A,125,39)	RS1/16S512J	R 1351	(A,65,11)	RS1/16S563J	R 1557	(B,91,45)	RS1/16S103J
L 1853	(B,132,100) Inductor	CTF1306	R 1010	(A,111,32)	RS1/16S101J	R 1352	(A,66,8)	RS1/16S473J	R 1558	(B,76,57)	RS1/16S123J
L 1861	(B,170,106) Inductor	CTF1334	R 1011	(A,111,28)	RS1/16S223J	R 1357	(B,61,10)	RS1/16S512J	R 1559	(B,97,50)	RS1/16S123J
L 1862	(B,170,96) Inductor	CTF1334	R 1012	(A,109,30)	RS1/16S223J	R 1358	(B,65,10)	RS1/16S102J	R 1560	(B,72,58)	RS1/16S103J
L 1871	(B,152,79) Inductor	CTF1334	R 1013	(A,109,29)	RS1/16S102J	R 1359	(A,58,15)	RS1/16S101J	R 1561	(B,72,35)	RS1/16S473J
L 1872	(A,166,90) Inductor	CTF1393	R 1014	(A,109,32)	RS1/16S102J	R 1360	(B,62,13)	RS1/16S512J	R 1562	(B,72,31)	RS1/16S473J
L 1873	(B,158,88) Inductor	CTF1393	R 1015	(A,109,27)	RS1/16S102J	R 1363	(A,56,10)	RS1/16S472J	R 1563	(B,69,50)	RS1/16S471J
L 1874	(B,128,68) Inductor	CTF1557	R 1016	(A,129,48)	RS1/16S473J	R 1364	(A,56,13)	RS1/16S472J	R 1564	(B,69,47)	RS1/16S471J
L 1881	(B,10,117) Inductor	CTF1306	R 1017	(A,126,49)	RS1/16S102J	R 1365	(B,52,10)	RS1/16S103J	R 1565	(B,72,56)	RS1/16S471J
L 2811	(B,98,34) Inductor	CTF1557	R 1102	(A,101,112)	RS1/16S102J	R 1368	(B,51,12)	RS1/16S103J	R 1566	(B,98,47)	RS1/16S471J
L 2812	(B,99,22) Inductor	CTF1557	R 1104	(A,104,123)	RS1/10S101J	R 1367	(A,53,12)	RS1/16S750J	R 1567	(A,64,53)	RS1/16S821J
L 2813	(B,42,19) Inductor	CTF1334	R 1105	(A,102,123)	RS1/10S101J	R 1401	(A,25,33)	RS1/16S105J	R 1568	(A,69,53)	RS1/16S821J
L 2814	(B,41,17) Inductor	CTF1334	R 1106	(A,103,126)	RS1/10S820J	R 1402	(B,47,110)	RS1/16S0R0J	R 1569	(B,75,34)	RS1/16S821J
L 2831	(A,36,16) Inductor	CTF1306	R 1107	(A,113,115)	RS1/16S102J	R 1403	(B,49,102)	RS1/16S0R0J	R 1570	(B,75,32)	RS1/16S821J
L 2832	(A,20,22) Inductor	CTF1306	R 1108	(A,115,115)	RS1/16S102J	R 1404	(B,49,59)	RS1/16S681J	R 1571	(B,70,53)	RS1/16S104J
L 2833	(A,23,21) Inductor	CTF1306	R 1109	(B,112,116)	RS1/16S223J	R 1405	(B,49,56)	RS1/16S681J	R 1572	(B,65,53)	RS1/16S104J
L 2834	(A,33,20) Inductor	CTF1306	R 1110	(B,116,116)	RS1/16S223J	R 1406	(B,43,32)	RS1/16S821J	R 1573	(A,108,39)	RS1/16S750J
L 2835	(A,23,23) Inductor	CTF1306	R 1111	(A,111,115)	RS1/16S101J	R 1407	(A,56,106)	RS1/16S103J	R 1574	(A,67,55)	RS1/16S105J
L 2836	(A,21,21) Inductor	CTF1306	R 1112	(A,117,115)	RS1/16S101J	R 1408	(A,58,106)	RS1/16S103J	R 1575	(A,65,68)	RS1/16S750J
L 2851	(B,71,21) Inductor	CTF1334	R 1113	(A,120,112)	RS1/16S332J	R 1409	(A,52,111)	RS1/16S273J	R 1576	(A,70,68)	RS1/16S0R0J
L 2852	(B,75,21) Inductor	CTF1334	R 1114	(A,120,111)	RS1/16S682J	R 1410	(B,53,102)	RS1/16S273J	R 1580	(B,98,43)	RS1/16S105J
L 2853	(B,79,20) Inductor	CTF1334	R 1115	(A,120,119)	RS1/10S222J	R 1411	(B,47,34)	RS1/16S330J	R 1581	(B,55,85)	RS1/16S821J
L 2854	(B,71,19) Inductor	CTF1334	R 1118	(A,101,111)	RS1/16S0R0J	R 1412	(A,56,110)	RS1/16S183J	R 1582	(B,56,90)	RS1/16S223J
L 2855	(B,75,19) Inductor	CTF1334	R 1119	(A,101,109)	RS1/16S0R0J	R 1413	(A,58,108)	RS1/16S183J	R 1583	(B,62,89)	RS1/16S473J
L 2856	(B,79,18) Inductor	CTF1334	R 1201	(A,135,36)	RS1/16S473J	R 1414	(B,56,46)	RS1/16S151J	R 1584	(B,59,89)	RS1/16S223J
L 2857	(B,88,11) Inductor	CTF1334	R 1202	(A,29,117)	RS1/16S563J	R 1415	(B,51,107)	RS1/16S753J	R 1585	(B,70,90)	RS1/16S563J
L 2859	(A,93,17) Inductor	CTF1334	R 1203	(A,29,114)	RS1/16S473J	R 1416	(B,53,109)	RS1/16S753J	R 1586	(B,69,86)	RS1/16S223J
L 2861	(B,75,23) Inductor	CTF1334	R 1204	(A,136,38)	RS1/16S473J	R 1417	(B,55,42)	RS1/16S681J	R 1587	(B,62,84)	RS1/16S473J
L 2862	(B,82,28) Inductor	CTF1334	R 1205	(A,138,42)	RS1/16S473J	R 1418	(B,55,38)	RS1/16S152J	R 1588	(A,70,86)	RS1/16S101J
L 2886	(B,82,25) Inductor	CTF1295	R 1206	(A,138,39)	RS1/16S473J	R 1419	(B,41,29)	RS1/16S332J	R 1601	(B,115,105)	RS1/16S272J
X 1601	(A,86,114) Radiator 12.58MHz	CSS1801	R 1207	(A,136,48)	RS1/16S473J	R 1420	(B,50,36)	RS1/16S680J	R 1602	(B,117,101)	RS1/16S101J
VR1551	(A,96,48) Semi-fixed 10kΩ(B)	CCP1448	R 1208	(B,29,118)	RS1/16S512J	R 1421	(B,53,36)	RS1/16S151J	R 1603	(B,107,102)	RS1/16S333J
△FU1202	(A,44,118) Fuse 4A	CEK1288	R 1209	(B,31,118)	RS1/16S102J	R 1422	(B,50,23)	RS1/16S151J	R 1604	(B,113,105)	RS1/16S473J
△FU1703	(A,86,122) Fuse 4A	CEK1288	R 1210	(B,35,119)	RS1/16S101J	R 1423	(B,46,26)	RS1/16S101J	R 1607	(A,90,81)	RS1/16S104J
△FU1704	(A,68,124) Fuse 4A	CEK1288	R 1211	(B,33,121)	RS1/16S512J	R 1424	(B,53,22)	RS1/16S680J	R 1610	(A,94,83)	RS1/16S681J
△FU1951	(A,118,87) Fuse 2A	CEK1284	R 1212	(A,31,123)	RS1/16S472J	R 1425	(B,72,100)	RS1/16S473J	R 1611	(A,100,87)	RS1/16S681J
△FU2801	(A,24,20) Fuse 5A	CEK1289	R 1213	(A,34,123)	RS1/16S472J	R 1426	(B,49,81)	RS1/16S681J	R 1612	(A,84,85)	RAB4C681J
GY1865	(A,167,101) Sensor	CSX1074	R 1214	(B,55,126)	RS1/16S0R0J	R 1427	(B,86,85)	RS1/16S473J	R 1613	(B,97,109)	RS1/16S472J
GY1863	(A,169,113) Sensor	CSX1078	R 1215	(B,57,127)	RS1/16S0R0J	R 1428	(B,49,54)	RS1/16S681J	R 1614	(A,94,89)	RS1/16S681J
Y 1801	(A,124,70) Tuner Unit	CWE1674	R 1216	(B,43,124)	RS1/16S0R0J	R 1429	(B,49,84)	RS1/16S681J	R 1615	(A,80,86)	RS1/16S473J
Y 1401	(A,46,44) FM/AM Tuner Unit	CWE1650	R 1217	(B,49,124)	RS1/16S0R0J	R 1430	(B,49,66)	RS1/16S681J	R 1617	(A,73,90)	RS1/16S681J
EF1001	(A,139,32) EMI Filter	CCG1082	R 1218	(B,30,129)	RS1/16S103J	R 1431	(B,49,81)	RS1/16S681J	R 1618	(A,96,92)	RAB4C681J
EF1201	(A,30,131) EMI Filter	CCG1067	R 1219	(B,32,133)	RS1/16S750J	R 1432	(B,72,102)	RS1/16S473J	R 1619	(A,98,88)	RS1/16S104J
EF1301	(A,74,17) EMI Filter	CCG1067	R 1220	(A,33,128)	RS1/16S750J	R 1433	(B,71,108)	RS1/16S473J	R 1621	(A,75,82)	RS1/16S470J
EF1351	(A,52,10) EMI Filter	CCG1067	R 1301	(A,82,21)	RS1/16S563J	R 1501	(A,63,35)	RS1/16S0R0J	R 1622	(A,76,82)	RS1/16S470J
EF1701	(A,91,125) EMI Filter	CCG1067	R 1302	(A,80,18)	RS1/16S473J	R 1502	(A,81,34)	RS1/16S0R0J	R 1623	(A,76,86)	RS1/16S103J
EF1901	(A,157,29) EMI Filter	CCG1172	R 1303	(A,85,17)	RS1/16S102J	R 1505	(A,91,30)	RS1/16S562J	R 1624	(A,76,84)	RS1/16S103J
			R 1304	(A,99,17)	RS1/16S102J						

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 1625	(A,96,98)	RAB4C681J	R 1881	(B,10,120)	RS1/4S102J	C 1010	(B,135,26)	CKSRF104Z25	C 1363	(A,54,15)	CKSYB106K6R3			
R 1626	(A,72,99)	RAB4C681J	R 1901	(A,78,74)	RS1/16S102J	A	A	C 1011	(B,120,12)	CCSRCH471J50	C 1364	(A,53,7)	CKSYB106K6R3	
R 1627	(B,70,92)	RS1/16S563J	R 1902	(B,141,42)	RS1/16S102J			C 1012	(B,133,26)	CCSRCH101J50	C 1365	(B,51,14)	CKSRF473K50	
R 1628	(A,71,103)	RAB4C681J	R 1903	(A,78,73)	RS1/16S272J			C 1013	(B,118,25)	CCSRCH681J50	C 1401	(B,46,107)	CKSQYB225K10	
R 1629	(A,96,102)	RAB4C681J	R 1904	(B,144,43)	RS1/16S272J			C 1014	(B,131,26)	CCSRCH101J50	C 1402	(B,50,100)	CKSQYB225K10	
R 1630	(A,96,104)	RS1/16S473J	R 1905	(B,160,33)	RS1/16S153J			C 1015	(B,120,23)	CCSRCH681J50	C 1403	(A,26,36)	CCSRCH270J50	
R 1631	(A,97,107)	RAB4C681J	R 1906	(B,157,33)	RS1/4S102J			C 1016	(B,129,26)	CCSRCH101J50	C 1404	(B,50,88)	CKSYB475K16	
R 1632	(A,67,112)	RS1/16S473J	R 1907	(B,175,41)	RS1/10S271J			C 1017	(B,118,14)	CCSRCH681J50	C 1405	(B,42,79)	CKSRF473K50	
R 1633	(A,67,107)	RS1/16S473J	R 1908	(B,175,63)	RS1/10S221J			C 1018	(B,127,26)	CCSRCH101J50	C 1406	(A,28,36)	CCSRCH220J50	
R 1634	(A,72,109)	RAB4C681J	R 1909	(B,175,45)	RS1/10S271J			C 1019	(A,119,18)	CCSRCH681J50	C 1407	(B,42,88)	CKSRF473K50	
R 1635	(A,97,111)	RAB4C681J	R 1910	(A,167,59)	RS1/10S271J			C 1020	(B,125,28)	CCSRCH101J50	C 1408	(B,42,51)	CKSRF473K50	
R 1636	(A,92,122)	RS1/16S473J	R 1911	(B,175,72)	RS1/16S122J			C 1022	(A,130,33)	CKSYB106K6R3	C 1409	(A,31,33)	CCSRCH270J50	
R 1637	(B,97,118)	RS1/16S473J	R 1912	(B,160,58)	RS1/16S0R0J			C 1023	(A,126,35)	CKSYB106K6R3	C 1410	(A,51,92)	CKSRF473K50	
R 1638	(B,71,97)	RS1/16S104J	R 1950	(B,111,90)	RS1/4S471J			C 1026	(A,126,39)	CCSRCH3R0C50	C 1411	(A,53,49)	CEVW221M16	
R 1640	(B,79,109)	RS1/16S681J	R 1951	(B,169,65)	RS1/16S432J			C 1027	(A,102,30)	CKSRF473K50	C 1412	(A,33,33)	CCSRCH330J50	
R 1641	(A,92,114)	RS1/16S681J	R 1952	(B,169,64)	RS1/16S222J			C 1028	(A,106,30)	CKSRF473K50	C 1413	(A,35,36)	CCSRCH470J50	
R 1642	(B,86,111)	RS1/16S473J	R 1953	(B,170,61)	RS1/16S223J			C 1029	(A,106,29)	CKSRF473K50	C 1414	(B,39,33)	CKSRF473K50	
R 1643	(B,72,108)	RS1/16S473J	R 1954	(B,109,41)	RS1/16S122J			C 1030	(A,108,27)	CKSRF473K50	C 1415	(B,57,63)	CKSRF473K50	
R 1644	(B,80,111)	RS1/16S473J	R 2831	(A,38,17)	RS1/16S820J			C 1031	(A,129,49)	CKSRF473K50	C 1418	(A,57,100)	CEVW100M16	
R 1647	(B,76,109)	RS1/16S473J	R 2832	(A,38,10)	RS1/16S820J			C 1032	(A,122,43)	CEVW100M16	C 1419	(B,58,40)	CKSRF473K50	
R 1651	(B,77,116)	RS1/16S473J	R 2833	(B,42,12)	RS1/16S223J			C 1033	(A,126,46)	CKSRF473K50	C 1420	(B,50,48)	CCSRCH270J50	
R 1652	(B,79,116)	RS1/16S473J	R 2834	(B,43,8)	RS1/16S223J			C 1034	(A,101,22)	CEVW100M16	C 1421	(A,50,32)	CKSRF473K50	
R 1657	(B,72,110)	RS1/16S473J	R 2835	(B,44,12)	RS1/16S471J			C 1035	(A,107,22)	CEVW220M16	C 1422	(B,51,45)	CCSRCH150J50	
R 1658	(B,72,112)	RS1/16S473J	R 2836	(B,45,8)	RS1/16S471J			C 1101	(A,103,120)	CKSRF473K50	C 1423	(A,51,85)	CEVW220M16	
R 1659	(A,82,79)	RS1/16S473J	R 2837	(A,39,7)	RS1/16S820J			C 1102	(A,110,101)	CEVW100M16	C 1424	(A,56,83)	CKSRF473K50	
R 1661	(A,90,85)	RS1/16S681J	R 2838	(A,33,16)	RS1/16S820J			C 1103	(A,116,101)	CEVW220M16	C 1425	(B,51,105)	CKSRCH680D50	
R 1662	(A,87,85)	RS1/16S681J	R 2839	(B,35,8)	RS1/16S223J			C 1106	(B,111,112)	CKSRF473K50	C 1426	(B,86,89)	CKSRF473K50	
R 1663	(B,88,88)	RS1/16S681J	R 2840	(A,35,12)	RS1/16S223J			C 1107	(B,113,112)	CKSRF473K50	C 1427	(B,53,111)	CCSRCH680D50	
R 1664	(A,88,85)	RS1/16S681J	R 2841	(B,37,8)	RS1/16S681J			C 1108	(B,115,112)	CKSRF473K50	C 1428	(B,55,39)	CKSRF473K50	
R 1801	(B,147,69)	RS1/16S152J	R 2842	(B,32,13)	RS1/16S471J			C 1109	(B,117,112)	CKSRF473K50	C 1429	(A,55,104)	CKSRF473K50	
R 1802	(B,144,65)	RS1/16S151J	R 2843	(A,27,16)	RS1/16S820J			C 1112	(B,117,123)	CCSRCH471J50	C 1430	(A,56,74)	CKSRF473K50	
R 1803	(B,145,63)	RS1/16S681J	R 2844	(A,27,7)	RS1/16S820J			C 1113	(B,119,121)	CCSRCH471J50	C 1431	(A,51,101)	CEVW100M16	
R 1806	(B,148,102)	RS1/16S0R0J	R 2845	(A,30,17)	RS1/16S223J			C 1117	(B,107,123)	CKSRF473K50	C 1432	(A,34,24)	CKSRF473K50	
R 1807	(B,128,73)	RS1/16S391J	R 2846	(A,25,8)	RS1/16S223J			C 1201	(A,32,114)	CKSRF473K50	C 1433	(B,49,28)	CKSRF473K50	
R 1808	(B,132,78)	RS1/16S473J	R 2847	(B,26,13)	RS1/16S471J			C 1202	(A,36,117)	CEVW100M16	C 1434	(A,44,23)	CKSRF473K50	
R 1810	(B,120,68)	RS1/16S221J	R 2848	(B,30,8)	RS1/16S471J			C 1203	(A,27,114)	CKSRF473K50	C 1435	(B,48,22)	CKSRF473K50	
R 1821	(A,21,122)	RS1/16S0R0J	R 2849	(A,92,23)	RS1/16S681J			C 1204	(A,138,37)	CKSRF473K50	C 1436	(B,74,104)	CKSRF473K50	
R 1822	(B,14,123)	RS1/16S333J	R 2850	(A,89,31)	RS1/16S473J			C 1206	(B,33,123)	CCSRCH3R0C50	C 1437	(B,54,48)	CKSRF473K50	
R 1823	(A,12,121)	RS1/16S203J	R 2851	(A,54,9)	RS1/16S0R0J			C 1208	(A,35,126)	CKSYB106K6R3	C 1442	(A,53,60)	CEVW221M16	
R 1824	(A,20,117)	RS1/16S822J	R 2852	(A,61,10)	RS1/16S0R0J			C 1209	(A,30,127)	CKSYB106K6R3	C 1501	(A,62,30)	CKSQYB105K16	
R 1825	(A,19,113)	RS1/16S202J	R 2853	(A,60,9)	RS1/16S0R0J			C 1210	(B,33,131)	CKSRF473K50	C 1504	(A,79,25)	CKSQYB105K16	
R 1826	(A,16,115)	RS1/16S564J	R 2854	(A,54,7)	RS1/16S0R0J			C 1301	(A,90,22)	CEVW100M16	C 1505	(A,95,29)	CKSQYB105K16	
R 1827	(A,17,117)	RS1/16S513J	R 2855	(A,60,5)	RS1/16S0R0J			C 1302	(A,96,22)	CEVW220M16	C 1508	(A,90,28)	CKSQYB105K16	
R 1828	(A,14,119)	RS1/16S513J	R 2856	(A,54,5)	RS1/16S0R0J			C 1303	(A,81,24)	CKSRF473K50	C 1507	(A,80,47)	CKSQYB105K16	
R 1829	(B,24,118)	RS1/16S102J	R 2873	(B,92,10)	RS1/16S0R0J			C 1304	(A,85,22)	CEVW100M16	C 1508	(A,80,45)	CKSQYB105K16	
R 1830	(B,22,117)	RS1/16S102J	R 2886	(B,84,28)	RS1/16S473J			C 1305	(A,82,18)	CKSRF473K50	C 1509	(A,91,32)	CKSQYB105K16	
R 1831	(B,21,122)	RS1/16S104J	R 2887	(B,86,29)	RS1/16S104J			C 1306	(B,86,24)	CKSRF473K50	C 1510	(A,95,35)	CKSQYB105K16	
R 1832	(B,21,126)	RS1/16S513J	R 2888	(B,80,28)	RS1/10S102J			C 1307	(B,86,19)	CKSRF473K50	C 1511	(A,95,37)	CKSQYB105K16	
R 1833	(B,16,127)	RS1/16S473J						C 1308	(B,96,19)	CKSRF473K50	C 1512	(A,94,41)	CKSQYB105K16	
R 1834	(B,18,127)	RS1/16S563J						C 1309	(B,96,18)	CKSRF473K50	C 1513	(A,90,44)	CKSQYB105K16	
R 1835	(A,20,128)	RS1/16S104J						C 1311	(B,77,23)	CCSRCH3R0C50	C 1514	(A,92,44)	CKSQYB105K16	
R 1841	(A,160,110)	RS1/16S104J						C 1313	(B,74,22)	CKSYB106K6R3	C 1515	(A,78,47)	CKSRF473K50	
R 1843	(B,144,108)	RS1/16S101J						C 1314	(A,70,19)	CKSYB106K6R3	C 1516	(A,82,52)	CEVW220M16	
R 1861	(B,165,122)	RS1/10S105J						C 1315	(B,99,8)	CCSRCH471J50	C 1517	(A,61,40)	CEVW100M16	
R 1862	(B,164,115)	RS1/10S151J						C 1316	(B,78,16)	CKSRF473K50	C 1551	(B,91,43)	CCSRCH7R0D50	
R 1871	(B,146,79)	RS1/10S103J						C 1318	(B,95,8)	CCSRCH471J50	C 1552	(B,79,35)	CKSRF473K50	
R 1872	(B,149,82)	RS1/10S103J						C 1353	(A,65,13)	CKSRF473K50	C 1553	(B,79,31)	CKSRF473K50	
R 1873	(B,143,84)	RN1/16SE1001D						C 1354	(A,64,17)	CEVW100M16	C 1554	(B,76,48)	CKSRF473K50	
R 1874	(B,139,84)	RN1/16SE1101D						C 1355	(A,64,8)	CKSRF473K50	C 1555	(B,74,46)	CKSRF473K50	
R 1875	(B,140,89)	RN1/16SE1001D						C 1361	(B,61,13)	CCSRCH3R0C50	C 1556	(B,76,56)	CCSRCH3R0C50	

CAPACITORS

C 1001	(B,141,26)	CCSRCH101J50
C 1002	(B,143,26)	CCSRCH101J50
C 1003	(B,142,11)	CCSRCH101J50
C 1004	(B,143,17)	CCSRCH101J50
C 1005	(B,123,26)	CCSRCH101J50
C 1006	(B,139,26)	CKSRF473K50
C 1007	(B,121,26)	CCSRCH101J50
C 1008	(B,137,26)	CKSRF473K50
C 1009	(B,119,26)	CCSRCH101J50

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.						
C 1557	(A,92,54)	CEVW101M16	C 1866	(A,173,96)	CKSRYP104K16	C 2849	(A,92,24)	CKSSYB102K50	Q 4156	(A,39,26) Transistor	UMZ1N						
C 1558	(B,77,52)	CKSRYP103K50	C 1867	(A,174,107)	CKSRYP105K10	C 2851	(B,23,33)	CKSRYP103Z50	Q 4182	(A,39,21) Transistor	UMX2N						
C 1559	(B,75,36)	CKSQYB225K10	C 1871	(B,161,87)	CKSRYP103Z50	C 2879	(A,96,21)	CEVW470M16	Q 4183	(A,39,16) Transistor	UMT2N						
C 1560	(B,75,30)	CKSQYB225K10	C 1872	(A,146,77)	CKSRYP104K25	C 2880	(A,73,40)	CKSRYP104Z25	Q 4603	(A,98,26) Transistor	2SC4617						
C 1561	(A,70,49)	CEVW100M16	C 1873	(A,147,77)	CKSRYP334K10	C 2886	(B,89,25)	CKSRYP104Z25	Q 4681	(A,11,7) Transistor	IMD3A						
C 1562	(A,65,49)	CEVW100M16	C 1874	(A,163,90)	CKSRYP103Z50	C 2887	(B,20,32)	CKSRYP104Z25	Q 4682	(A,11,11) Transistor	IMD3A						
C 1563	(B,96,45)	CKSYB475K16	C 1875	(A,153,79)	CEVW101M16	Monitor Unit Consists of Monitor PCB Upper PCB Inverter PCB											
C 1564	(A,71,56)	CKSYB475K16	C 1876	(A,140,78)	CEVW470M16												
C 1565	(A,98,40)	CKSRYP103K50	C 1877	(A,154,91)	CKSRYP104K16												
C 1566	(A,74,60)	CKSRYP103K50	C 1878	(A,150,88)	CKSRYP104Z25												
C 1567	(A,103,35)	CEVW470M16	C 1879	(A,156,91)	CKSRYP474K10	GH1 Unit Number:CWM9950(AVIC-N2/XU/UC) Unit Number:CWM9949(AVIC-X1R/XU/EW) Unit Name:Monitor Unit											
C 1568	(A,75,65)	CEVW470M16	C 1880	(A,144,77)	CKSRYP104K25												
C 1569	(A,102,48)	CEVW330M10	C 1881	(B,10,123)	CKSRYP104K25												
C 1570	(A,103,42)	CEVW101M16	C 1882	(A,146,88)	CEVW470M16												
C 1571	(A,63,64)	CEVW330M10	C 1901	(A,158,36)	CEVW101M16	MISCELLANEOUS											
C 1572	(A,69,64)	CEVW101M16	C 1902	(A,145,46)	CEVW101M16												
C 1575	(B,80,47)	CKSRYP104K25	C 1903	(A,78,80)	CKSRYP104K16												
C 1576	(B,87,42)	CKSRYP104K25	C 1904	(B,132,41)	CKSRYP104K25												
C 1577	(A,76,51)	CEVW101M16	C 1905	(A,143,40)	CKSRYP103K50	IC 4001 (A,28,50) IC TC90A64AF-P											
C 1580	(A,61,88) 22μF	CCG1183	C 1906	(A,161,30)	CKSRYP103K50												
C 1601	(B,119,101)	CKSRYP103K50	C 1907	(B,170,34)	CKSRYP103K50												
C 1602	(A,81,82)	CKSRYP104K16	C 1908	(A,166,31)	CEVW101M16												
C 1603	(A,91,120)	CKSRYP103K50	C 1910	(A,166,45)	CEVW101M16	IC 4061 (A,55,79) IC TC7SH08FUS1											
C 1604	(A,84,76)	CEVW100M16	C 1911	(B,168,61)	CKSRYP104K25												
C 1605	(A,87,79)	CKSRYP103K50	C 1912	(B,169,44)	CKSRYP103K50												
C 1606	(A,94,120)	CKSRYP222K50	C 1913	(B,170,56)	CKSRYP103K50												
C 1607	(A,87,81)	CKSRYP103K50	C 1914	(B,169,39)	CKSRYP103K50	IC 4141 (A,62,38) IC TC7SH08FUS1											
C 1610	(A,73,93)	CKSRYP102K50	C 1915	(A,166,53)	CEVW101M16												
C 1611	(A,95,95)	CKSRYP102K50	C 1916	(A,166,38)	CEVW101M16												
C 1612	(A,72,106)	CKSRYP102K50	C 1917	(A,155,46)	CEVW101M16												
C 1613	(A,82,113)	CKSRYP102K50	C 1918	(A,155,41)	CKSRYP103K50	IC 4142 (A,67,43) IC TC15404AM											
C 1614	(B,84,111)	CKSRYP105K10	C 1919	(A,165,74)	CEVW101M16												
C 1615	(A,90,115)	CKSRYP103K50	C 1920	(B,169,73)	CKSRYP103K50												
C 1616	(A,70,93)	CKSRYP104K16	C 1921	(B,169,69)	CKSRYP103K50												
C 1619	(A,102,90)	CKSRYP104K16	C 1922	(A,173,84)	CKSRYP104K16	IC 4151 (A,53,34) IC NJM2138V											
C 1620	(A,96,86)	CKSRYP104K16	C 1923	(A,166,65)	CEVW470M16												
C 1621	(A,94,117)	CKSRYP104K16	C 1924	(A,173,86)	CKSRYP103K50												
C 1622	(B,112,98)	CKSRYP103K50	C 1925	(A,172,91)	CEVW220M16												
C 1623	(B,111,105)	CKSRYP103K50	C 1950	(A,122,94)	CEVW101M16	IC 4181 (A,45,18) IC NJM082BV											
C 1801	(B,149,69)	CKSRYP222K50	C 1951	(B,108,85)	CKSRYP103K50												
C 1802	(B,139,87)	CKSRYP103K50	C 1952	(B,115,86)	CKSRYP103K50												
C 1803	(B,146,68)	CCSRCH220J50	C 1953	(A,127,87)	CEVW101M16												
C 1805	(A,123,76)	CEVW100M16	C 1954	(A,113,39)	CEVW101M16	IC 4212 (A,102,28) IC NJM062V											
C 1806	(B,120,76)	CKSRYP473K50	C 1955	(B,112,44)	CKSRYP103K50												
C 1807	(A,129,78)	CEVW220M16	C 1956	(B,104,44)	CKSRYP103K50												
C 1808	(B,126,73)	CKSRYP103K50	C 1957	(A,111,47)	CEVW101M16												
C 1809	(B,132,72)	CKSRYP103K50	C 2813	(B,23,31)	CKSRYP104Z25	IC 4311 (A,11,33) IC NJM062V											
C 1810	(B,136,80)	CKSRYP473K50	C 2814	(B,18,32)	CKSRYP104Z25												
C 1811	(B,114,73)	CKSRYP103K50	C 2831	(A,38,20)	CEVW100M16												
C 1812	(B,124,68)	CKSRYP224K16	C 2832	(A,39,13)	CEVW100M16												
C 1821	(A,11,118)	CKSRYP882K16	C 2833	(B,42,15)	CKSRYP222K50	IC 4601 (A,106,68) IC TC7SH08FUS1											
C 1822	(B,17,124)	CKSRYP104K25	C 2834	(B,44,6)	CKSRYP222K50												
C 1823	(B,17,122)	CKSRYP103K50	C 2837	(A,44,7)	CEVW100M16												
C 1824	(A,14,117)	CKSRYP104K16	C 2838	(A,29,20)	CEVW100M16												
C 1825	(B,23,122)	CKSRYP102K50	C 2839	(B,35,5)	CKSRYP222K50	IC 4602 (A,125,45) IC R1224N102H											
C 1826	(A,21,119)	CKSRYP104Z25	C 2840	(B,33,15)	CKSRYP222K50												
C 1862	(B,161,122)	CKSRYP103K50	C 2843	(A,29,13)	CEVW100M16												
C 1863	(B,163,111)	CKSYB106K6R3	C 2844	(A,34,7)	CEVW100M16												
C 1864	(B,168,98)	CKSRYP104K25	C 2845	(B,28,15)	CKSRYP222K50	IC 4651 (A,64,25) IC PD6340A											
C 1865	(A,166,94)	CCSRCH102J50	C 2846	(B,28,5)	CKSRYP222K50												
												IC 4702 (A,137,76) IC TC130H251B					
						IC 4841 (A,125,45) IC R1224N102H											
						IC 4851 (A,134,21) IC MAX1748EUES1											
						IC 4861 (A,143,47) IC NJM2903V											
						IC 5002 (B,5,14) IC Q7SET08FUS1											
						IC 5003 (B,10,46) IC OZ9611SN											
						IC 5004 (A,9,59) FET SI8544DQ											
						IC 5005 (A,13,56) FET 2SC4617											
						Q 4002 (A,44,62) Transistor 2SC4617											
						Q 4101 (A,54,66) Transistor 2SA1774											
						Q 4102 (A,48,63) Transistor 2SC4617											
						Q 4103 (A,49,65) Transistor 2SC4617											
						Q 4111 (A,56,80) Transistor 2SC4617											
						Q 4112 (A,48,57) Transistor 2SA1774											
						Q 4113 (A,51,80) Transistor 2SC4617											
						Q 4121 (A,56,54) Transistor 2SC4617											
						Q 4122 (A,48,51) Transistor 2SA1774											
						Q 4123 (A,51,54) Transistor 2SC4617											
						Q 4131 (A,56,49) Transistor 2SC4617											
						Q 4132 (A,48,46) Transistor 2SA1774											
						Q 4133 (A,51,49) Transistor 2SC4617											
						Q 4151 (A,46,38) Transistor UMZ1N											
						Q 4152 (A,39,35) Transistor UMZ1N											
						Q 4153 (A,39,32) Transistor UMZ1N											
						Q 4154 (A,54,26) Transistor UMZ1N											
						Q 4155 (A,47,26) Transistor UMZ1N											
						Q 4156 (A,39,26) Transistor UMZ1N											
						Q 4182 (A,39,21) Transistor UMZ1N											
						Q 4183 (A,39,16) Transistor UMT2N											
						Q 4603 (A,98,26) Transistor 2SC4617											
						Q 4681 (A,11,7) Transistor IMD3A											
						Q 4682 (A,11,11) Transistor IMD3A											
						Q 4683 (A,11,15) Transistor FMG12											
						Q 4741 (A,119,60) Transistor DTA123JK											
						Q 4742 (A,119,56) Transistor DTC124EK											
						Q 4831 (A,148,28) Transistor 2SB1260											
						Q 4832 (A,141,22) Transistor DTC114EK											
						Q 4833 (A,140,18) Transistor 2SC4617											
						Q 4835 (A,100,45) Transistor 2SD1664											
						Q 4851 (A,131,26) FET CPH6316											
						Q 5001 (B,12,33) Transistor 2SC4617											
						Q 5002 (B,13,36) Transistor 2SC4617											
						Q 5003 (B,8,36) Transistor DTA144EE											
						Q 5004 (B,8,35) Transistor 2SC4617											
						Q 5011 (B,10,10) Transistor 2SC4097											
						Q 5020 (B,9,64) Transistor 2SC4617											
						Q 5101 (B,12,69) Transistor 2SC4617											
						Q 5102 (B,11,67) Transistor 2SC4617											
						Q 5103 (B,10,62) Transistor 2SA1774											
						Q 5105 (B,7,67) Transistor UMX2N											
						D 4301 (A,5,132) Diode DAN202U											
						D 4311 (A,11,37) Diode AM-30-21											
						D 4321 (A,9,119) LED CL-490S-WF-SD											
						D 4322 (A,9,50) LED CL-490S-WF-SD											
						D 4355 (A,10,160) LED CL-190UB2-X											
						D 4356 (A,10,148) LED CL-190UB2-X											
						D 4357 (A,10,21) LED CL-190UB2-X											
						D 4358 (A,10,9) LED CL-190UB2-X											
						D 4601 (A,99,32) Diode RB500V-40											
						D 4681 (A,14,13) Diode MA111											
						D 4682 (A,13,18) Diode MA111											
						D 4683 (A,10,20) Diode UDZS5R6(B)											
						D 4684 (A,10,25) Diode UDZS5R6(B)											
						D 4701 (A,114,77) Diode UDZS5R6(B)											
						D 4702 (A,113,77) Diode UDZS5R6(B)											
						D 4703 (A,121,73) Diode UDZS5R6(B)											
						D 4704 (A,119,73) Diode UDZS5R6(B)											
						D 4705 (A,102,79) Diode UDZS5R6(B)											
						D 4706 (A,100,79) Diode UDZS5R6(B)											

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
D 5007	(A,13,16) LED	CL-190UB2-X	S 4351	(A,12,160) Push Switch	CSG1111	R 4120	(A,49,80)	RS1/16S391J	R 4193	(A,37,14)	RS1/16S0R0J
D 5008	(A,13,10) LED	CL-190UB2-X	S 4352	(A,12,148) Push Switch	CSG1111	R 4121	(A,58,54)	RS1/16S153J	R 4194	(A,39,18)	RS1/16S0R0J
D 5009	(A,11,42) Diode	RB751V40	S 4353	(A,12,21) Push Switch	CSG1111	R 4122	(A,58,51)	RS1/16S104J	R 4208	(A,124,72)	RS1/16S101J
D 5010	(A,17,53) Diode	UDZ56R2(B)	S 4354	(A,12,9) Push Switch	CSG1111	R 4123	(A,57,51)	RS1/16S681J	R 4209	(A,123,69)	RS1/16S101J
D 5011	(A,7,56) Diode	UDZ56R2(B)	S 5001	(A,18,43) Push Switch	CSG1111	R 4124	(A,54,53)	RS1/16S331J	R 4211	(A,103,22)	RS1/16S681J
D 5012	(B,6,71) Diode	UDZ56R2(B)	S 5002	(A,18,29) Push Switch	CSG1111	R 4125	(A,103,14)	RS1/16S75R0D	R 4311	(A,13,30)	RS1/16S275J
D 5013	(B,18,69) Diode	MA147	S 5003	(A,18,13) Push Switch	CSG1111	R 4128	(A,54,54)	RS1/16S331J	R 4312	(A,15,30)	RS1/16S105J
D 5014	(B,6,74) Diode	MA147	VR5001	(A,8,43) Semi-fixed 15kΩ(B)	CCP1490	R 4129	(A,50,51)	RS1/16S391J	R 4313	(A,7,33)	RS1/16S393J
D 5016	(B,16,10) Diode	UDZ56R6(B)	△FU4831	(A,117,10) Fuse 630mA	CEK1252	R 4130	(A,49,54)	RS1/16S391J	R 4314	(A,8,31)	RS1/16S103J
D 5030	(A,16,19) Diode (EW)	DAN202U	△FU5001	(B,7,24) Fuse 1.25A	CEK1255	R 4131	(A,58,49)	RS1/16S153J	R 4315	(A,15,45)	RS1/16S121J
D 5101	(B,15,67) Diode	UDZ58R2(B)	RESISTORS			R 4132	(A,58,46)	RS1/16S104J	R 4321	(A,14,124)	RS1/16S121J
L 4001	(A,17,38) Inductor	CTF1306	R 4001	(A,26,33)	RS1/16S101J	R 4133	(A,57,46)	RS1/16S681J	R 4322	(A,9,124)	RS1/16S121J
L 4002	(A,21,36) Inductor	CTF1306	R 4002	(A,20,34)	RS1/16S470J	R 4134	(A,54,47)	RS1/16S331J	R 4323	(A,8,44)	RS1/16S121J
L 4003	(A,26,38) Inductor	CTF1306	R 4003	(A,28,34)	RS1/16S101J	R 4135	(A,106,15)	RS1/16S75R0D	R 4324	(A,10,44)	RS1/16S121J
L 4004	(A,27,36) Inductor	CTF1306	R 4004	(A,33,34)	RS1/16S101J	R 4136	(A,54,49)	RS1/16S331J	R 4359	(A,8,139)	RS1/16S181J
L 4005	(A,28,65) Inductor-Array	CTF1421	R 4005	(A,43,43)	RS1/16S473J	R 4139	(A,50,46)	RS1/16S391J	R 4360	(A,8,140)	RS1/16S121J
L 4006	(A,23,65) Inductor-Array	CTF1421	R 4006	(A,45,45)	RS1/16S392J	R 4140	(A,49,49)	RS1/16S391J	R 4361	(A,8,141)	RS1/16S121J
L 4008	(A,26,65) Inductor	CTF1306	R 4009	(A,44,60)	RS1/16S152J	R 4141	(A,64,42)	RS1/16S105J	R 4362	(A,8,142)	RS1/16S121J
L 4009	(A,23,37) Inductor	CTF1306	R 4010	(A,42,65)	RS1/16S331J	R 4142	(A,62,43)	RS1/16S224J	R 4363	(A,4,129)	RS1/16S181J
L 4011	(A,19,36) Inductor	CTF1306	R 4012	(A,33,63)	RS1/16S5105J	R 4145	(A,64,46)	RS1/16S1501D	R 4364	(A,6,129)	RS1/16S121J
L 4012	(A,24,36) Ferrite Bead	CTF1528	R 4013	(A,34,64)	RS1/16S391J	R 4146	(A,66,45)	RS1/16S602F	R 4365	(A,11,26)	RS1/16S121J
L 4013	(A,30,63) Ferrite Bead	CTF1528	R 4014	(A,28,69)	RAB4C101J	R 4147	(A,65,38)	RS1/16S3302F	R 4366	(A,10,27)	RS1/16S121J
L 4014	(A,24,63) Ferrite Bead	CTF1528	R 4015	(A,25,69)	RS1/16S473J	R 4148	(A,65,37)	RS1/16S1002F	R 4453	(A,138,72)	RS1/16S101J
L 4015	(A,20,64) Inductor	CTF1306	R 4018	(A,22,69)	RS1/16S101J	R 4150	(A,39,30)	RS1/16S183J	R 4454	(A,138,71)	RS1/16S101J
L 4016	(A,16,47) Ferrite Bead	CTF1528	R 4022	(A,20,66)	RS1/16S101J	R 4152	(A,48,35)	RS1/16S3901F	R 4601	(A,104,23)	RS1/16S473J
L 4017	(A,28,37) Inductor	CTF1306	R 4023	(A,18,72)	RS1/16S0R0J	R 4153	(A,45,35)	RS1/16S1501F	R 4602	(A,106,28)	RS1/16S473J
L 4071	(A,50,69) Inductor	LCYA100J2520	R 4024	(A,17,62)	RS1/16S333J	R 4154	(A,54,30)	RS1/16S102J	R 4603	(A,79,17)	RS1/16S473J
L 4074	(A,45,41) Inductor	LCYA100J2520	R 4025	(A,15,39)	RS1/16S101J	R 4155	(A,51,30)	RS1/16S102J	R 4604	(A,89,27)	RS1/16S471J
L 4075	(A,53,70) Inductor	LCYA100J2520	R 4026	(A,30,35)	RS1/16S101J	R 4156	(A,45,32)	RS1/16S1501F	R 4605	(A,71,19)	RS1/16SS471J
L 4078	(A,43,68) Inductor	LCYA100J2520	R 4027	(A,16,37)	RS1/16S101J	R 4157	(A,48,31)	RS1/16S3901F	R 4606	(A,89,30)	RAB4CQ471J
L 4079	(A,41,68) Inductor	CTF1306	R 4030	(A,18,33)	RS1/16S101J	R 4160	(A,60,37)	RS1/16S1002F	R 4607	(A,89,33)	RAB4CQ471J
L 4081	(A,51,75) Inductor	LCYC2R2K2125	R 4031	(A,29,34)	RS1/16S101J	R 4161	(A,60,35)	RS1/16S1802F	R 4608	(A,88,35)	RS1/16SS471J
L 4101	(A,121,37) Inductor	LCYA100J2520	R 4061	(A,64,81)	RS1/16S473J	R 4162	(A,57,30)	RS1/16S102J	R 4610	(A,77,42)	RS1/16SS471J
L 4141	(A,71,63) Inductor	LCYA100J2520	R 4062	(A,63,78)	RS1/16S152J	R 4183	(A,55,38)	RS1/16S3901F	R 4611	(A,83,42)	RS1/16S470J
L 4151	(A,62,31) Inductor	LCYA100J2520	R 4063	(A,58,80)	RS1/16S0R0J	R 4184	(A,52,38)	RS1/16S1501F	R 4612	(A,78,42)	RS1/16S470J
L 4152	(A,61,18) Inductor	LCYA100J2520	R 4064	(A,57,82)	RS1/16S0R0J	R 4185	(A,49,38)	RS1/16S102J	R 4613	(A,81,42)	RS1/16S272J
L 4181	(A,57,19) Coil	LCYA101J2520	R 4084	(A,20,74)	RS1/16S473J	R 4186	(A,44,38)	RS1/16S272J	R 4614	(A,80,42)	RS1/16S272J
L 4182	(A,57,16) Coil	LCYA101J2520	R 4085	(A,22,74)	RS1/16S473J	R 4187	(A,42,35)	RS1/16S102J	R 4615	(A,71,15)	RS1/16SS471J
L 4311	(A,6,38) Inductor	LCYA100J2520	R 4086	(A,22,70)	RS1/16S473J	R 4168	(A,37,35)	RS1/16S272J	R 4616	(A,73,15)	RS1/16S104J
L 4311	(A,6,38) Inductor	LCYA100J2520	R 4087	(A,40,75)	RS1/16S104J	R 4169	(A,42,32)	RS1/16S102J	R 4617	(A,73,13)	RS1/16S473J
L 4601	(A,83,14) Inductor	LCYA100J2520	R 4088	(A,43,81)	RS1/16S104J	R 4170	(A,37,32)	RS1/16S272J	R 4618	(A,88,28)	RS1/16SS471J
L 4701	(A,119,63) Inductor	LCYA100J2520	R 4089	(A,45,82)	RS1/16S104J	R 4171	(A,52,28)	RS1/16S331J	R 4619	(A,97,29)	RS1/16S473J
L 4801	(A,20,31) Inductor	LCYA100J2520	R 4101	(A,57,66)	RS1/16S8201F	R 4172	(A,59,28)	RS1/16S103J	R 4621	(A,98,29)	RS1/16S223J
L 4802	(A,23,30) Inductor	LCYA100J2520	R 4102	(A,57,63)	RS1/16S602F	R 4174	(A,44,27)	RS1/16S331J	R 4622	(A,95,33)	RS1/16S473J
L 4803	(A,27,30) Inductor	LCYA100J2520	R 4103	(A,55,63)	RS1/16S681J	R 4175	(A,48,24)	RS1/16S103J	R 4623	(A,99,29)	RS1/16S0R0J
L 4804	(A,30,30) Inductor	LCYA100J2520	R 4104	(A,53,64)	RS1/16S331J	R 4177	(A,36,27)	RS1/16S331J	R 4624	(A,87,42)	RAB4CQ473J
L 4841	(A,126,37) Choke Coil 10μH	CTH1249	R 4105	(A,105,11)	RS1/16S104J	R 4178	(A,42,24)	RS1/16S103J	R 4625	(A,65,12)	RS1/16S103J
L 4851	(A,142,28) Choke Coil 10μH	CTH1259	R 4106	(A,61,65)	RS1/16S6801D	R 4180	(A,35,29)	RS1/16S243J	R 4626	(A,87,29)	RS1/16S473J
L 4852	(A,126,26) Choke Coil 18μH	CTH1250	R 4107	(A,51,66)	RS1/16S331J	R 4181	(A,42,23)	RS1/16S3002F	R 4627	(A,83,17)	RAB4CQ472J
L 4861	(A,137,37) Choke Coil 10μH	CTH1249	R 4108	(A,49,63)	RS1/16S391J	R 4182	(A,47,22)	RS1/16S223J	R 4628	(A,65,14)	RS1/16S0R0J
L 4862	(A,136,46) Choke Coil 6.8μH	CTH1248	R 4110	(A,47,66)	RS1/16S391J	R 4183	(A,45,22)	RS1/16S1203F	R 4629	(A,84,42)	RS1/16S473J
L 4863	(A,137,62) Inductor	LCTC100K1608	R 4111	(A,58,60)	RS1/16S153J	R 4184	(A,47,19)	RS1/16S1602F	R 4630	(A,64,16)	RS1/16S0R0J
L 4864	(A,130,55) Inductor	LCYA100J2520	R 4112	(A,58,57)	RS1/16S104J	R 4185	(A,48,15)	RS1/16S1502F	R 4631	(A,82,21)	RAB4CQ471J
L 4865	(A,149,65) Inductor	LCYA100J2520	R 4113	(A,57,57)	RS1/16S681J	R 4186	(A,42,21)	RS1/16S1002F	R 4642	(A,88,14)	RS1/16S473J
L 4901	(A,92,27) Inductor	LCYA2R2J2520	R 4114	(A,54,59)	RS1/16S331J	R 4187	(A,42,18)	RS1/16S1002F	R 4646	(A,89,18)	RS1/16S473J
T 5001	(A,9,80) Transformer	CTT1103	R 4115	(A,102,13)	RS1/16S75R0D	R 4188	(A,42,16)	RS1/16S101J	R 4650	(A,66,29)	RS1/16SS471J
TH4601	(A,145,82) Thermistor	CCX1051	R 4118	(A,54,60)	RS1/16S331J	R 4189	(A,37,19)	RS1/16S153J	R 4651	(A,67,33)	RAB4CQ471J
X 4001	(A,35,68) Crystal Resonator 42MHz	CSS1604	R 4119	(A,50,57)	RS1/16S391J	R 4190	(A,41,21)	RS1/16S100J	R 4652	(A,67,35)	RS1/16SS471J
X 4601	(A,76,18) Radiator 12.58MHz	CSS1601				R 4191	(A,35,14)	RS1/16S153J	R 4655	(A,77,48)	RS1/16S102J
X 4701	(A,107,78) Ceramic Resonator 4.97MHz	CSS1573				R 4192	(A,42,14)	RS1/16S100J	R 4657	(A,66,28)	RS1/16SS0R0J

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Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.	
R 4670	(A,85,19)	RS1/16S1502D	R 5014	(A,8,14)	RS1/16S102J	C 4040	(A,39,62)	CKSSYF104Z16	C 4182	(A,49,19)	CKSRYF104Z25	A	A	C 4183	(A,52,17)	CSZSR4R7M25
R 4681	(A,10,23)	RS1/16S104J	R 5015	(B,18,67)	RS1/16S105J	C 4042	(A,37,63)	CCSRCH181J50	C 4184	(A,49,17)	CKSRYF104Z25			C 4186	(A,49,22)	CKSRYF104Z25
R 4682	(A,10,19)	RS1/16S104J	R 5016	(A,12,48)	RS1/16S563J	C 4045	(A,36,65)	CCSRCH9R0D50	C 4188	(A,47,17)	CKSRYF104Z25	B	B	C 4225	(A,103,25)	CKSRYF104Z25
R 4683	(A,13,22)	RS1/16S102J	R 5017	(A,17,51)	RS1/16S103J	C 4046	(A,34,65)	CCSRCH9R0D50	C 4311	(A,11,30)	CKSRYB224K16			C 4312	(A,9,28)	CKSRYB104K16
R 4684	(A,13,20)	RS1/16S102J	R 5018	(A,8,55)	RS1/16S103J	C 4047	(A,31,63)	CKSSYF104Z16	C 4313	(A,7,28)	CKSRYB104K16	C	C	C 4314	(A,6,35)	CKSRYB104K16
R 4701	(A,116,74)	RS1/16S101J	R 5019	(B,6,70)	RS1/16S511J	C 4048	(A,30,62)	CKSSYF104Z16	C 4315	(A,6,31)	CKSRYB104K16			C 4321	(A,11,123)	CKSRYB104K16
R 4702	(A,116,73)	RS1/16S101J	R 5020	(B,6,68)	RS1/16S821J	C 4049	(A,25,62)	CKSSYF104Z16	C 4322	(A,10,45)	CKSRYB104K16	D	D	C 4375	(A,11,156)	CKSRYB104K16
R 4703	(A,98,79)	RS1/16S101J	R 5022	(A,16,24)	RS1/16S5181J	C 4050	(A,20,63)	CKSRYB105K6R3	C 4376	(A,10,144)	CKSRYB104K16			C 4377	(A,9,25)	CKSRYB104K16
R 4704	(A,98,78)	RS1/16S101J	R 5023	(A,14,8)	RS1/16SS0R0J	C 4051	(A,16,54)	CKSSYF104Z16	C 4378	(A,11,13)	CKSRYB104K16	E	E	C 4601	(A,77,14)	CSZSR330M10
R 4705	(A,111,77)	RS1/16S471J	R 5024	(A,15,24) (EW)	RS1/16S5151J	C 4052	(A,16,46)	CKSSYF104Z16	C 4602	(A,79,20)	CKSRYF104Z25			C 4603	(A,65,10)	CKSRYF104Z25
R 4707	(A,116,69)	RS1/16S0R0J	R 5030	(A,19,18) (UC)	RS1/16S470J	C 4054	(A,23,34)	CCSRCH101J50	C 4605	(A,74,20)	CKSRYF104Z25	F	F	C 4621	(A,68,12)	CKSRYB103K50
R 4709	(A,106,58)	RS1/16SS472J	R 5031	(B,13,9)	RS1/16S332J	C 4055	(A,16,65)	CKSRYF104Z25	C 4621	(A,68,12)	CKSRYB103K50			C 4631	(A,74,6) 10µF	CCG1138
R 4711	(A,134,74)	RS1/16S471J	R 5101	(B,6,63)	RS1/16S101J	C 4061	(A,53,80)	CCSRCH390J50	C 4632	(A,78,6) 10µF	CCG1138	G	G	C 4651	(A,81,21)	CKSRYF104Z25
R 4741	(A,106,83)	RS1/16S0R0J	R 5102	(B,11,84)	RS1/16S103J	C 4062	(A,63,81)	CSZS100M10	C 4651	(A,81,21)	CKSRYF104Z25			C 4670	(A,144,83)	CKSSYF104Z16
R 4742	(A,115,80)	RS1/16S0R0J	R 5103	(B,6,64)	RS1/16S471J	C 4071	(A,47,70)	CKSRYB105K6R3	C 4681	(A,13,25)	CKSRYB102K50	H	H	C 4682	(A,13,23)	CKSRYB102K50
R 4743	(A,101,83)	RS1/16S473J	R 5104	(B,9,69)	RS1/16S101J	C 4074	(A,43,41)	CKSYF106Z10	C 4683	(A,10,17)	CKSRYB102K50			C 4684	(A,10,22)	CKSRYB102K50
R 4802	(A,17,21)	RS1/16S0R0J	R 5105	(B,14,67)	RS1/16S104J	C 4075	(A,49,72)	CKSRYB105K6R3	C 4685	(A,88,25)	CKSRYB102K50	I	I	C 4686	(A,87,23)	CKSRYB102K50
R 4803	(A,35,20)	RS1/16S333J	R 5106	(B,14,85)	RS1/16S103J	C 4101	(A,63,64)	CCSRCH470J50	C 4687	(A,15,7)	CSZSR330M10			C 4701	(A,119,66)	CSZSR330M10
R 4804	(A,52,29)	RS1/16S0R0J	R 5107	(B,12,63)	RS1/16S473J	C 4102	(A,53,63)	CCSRCH470J50	C 4702	(A,105,59)	CKSSYF104Z16	J	J	C 4704	(A,135,78)	CKSRYF104Z25
R 4805	(A,45,24)	RS1/16S0R0J	R 5108	(B,10,69)	RS1/16S101J	C 4103	(A,51,63)	CCSRCH470J50	C 4704	(A,135,78)	CKSRYF104Z25			C 4801	(A,21,26)	CKSRYF104Z25
R 4806	(A,37,24)	RS1/16S0R0J	R 5109	(A,7,15)	RS1/16S824J	C 4104	(A,56,66)	CKSRYF104Z25	C 4802	(A,20,22)	CKSRYF104Z25	K	K	C 4803	(A,25,26)	CSZS100M10
R 4831	(A,147,24)	RS1/16S153J	CAPACITORS			C 4105	(A,59,64)	CSZS100M10	C 4804	(A,23,22)	CKSRYF104Z25			C 4805	(A,29,25)	CSZSR330M10
R 4832	(A,143,23)	RS1/16S472J	C 4001	(A,19,37)	CKSRYB105K6R3	C 4107	(A,85,64)	CKSYF106Z10	C 4806	(A,26,22)	CKSRYF104Z25	L	L	C 4807	(A,32,26)	CSZSR33M35
R 4833	(A,145,23)	RS1/16S472J	C 4002	(A,24,37)	CKSSYF104Z16	C 4111	(A,63,57)	CCSRCH470J50	C 4808	(A,32,23)	CKSRYF104Z25			C 4809	(A,21,31)	CKSSYF104Z16
R 4834	(A,144,19)	RS1/16S103J	C 4003	(A,31,37)	CKSSYF104Z16	C 4112	(A,54,57)	CCSRCH470J50	C 4810	(A,25,31)	CKSSYF104Z16	M	M	C 4831	(A,28,31)	CKSSYF104Z16
R 4835	(A,104,45)	RS1/16S121J	C 4004	(A,33,37)	CKSSYF104Z16	C 4113	(A,51,57)	CCSRCH470J50	C 4832	(A,32,31)	CKSRYF104Z25			C 4833	(A,102,41)	CKSRYF104Z25
R 4851	(A,135,23)	RS1/16S5102D	C 4005	(A,32,36)	CKSSYF104Z16	C 4114	(A,60,59)	CCSRCH470J50	C 4836	(A,95,47)	CKSRYF104Z25	N	N	C 4841	(A,126,41)	CKSRYB105K6R3
R 4852	(A,137,22)	RS1/16S2202D	C 4006	(A,34,37)	CKSSYF104Z16	C 4121	(A,63,53)	CCSRCH470J50	C 4843	(A,126,49) 68µF/6.3V	COH1440			C 4844	(A,126,52)	CKSRYF104Z25
R 4853	(A,137,25)	RS1/16S272J	C 4007	(A,36,37)	CKSSYF104Z16	C 4122	(A,54,51)	CCSRCH470J50	C 4851	(A,146,31)	CKSRYB104K16	O	O	C 4852	(A,124,32) 68µF/6.3V	COH1440
R 4854	(A,131,19)	RS1/16S100J	C 4008	(A,38,38)	CKSSYF104Z16	C 4123	(A,51,51)	CCSRCH470J50	C 4853	(A,122,31)	CKSRYB104K16			C 4855	(A,134,30) 10µF	CCG1138
R 4855	(A,136,17)	RS1/16S102J	C 4009	(A,40,37)	CKSSYF104Z16	C 4124	(A,80,54)	CKSRYF104Z25	C 4857	(A,135,25)	CCSRCH681J50	P	P	C 4858	(A,138,30) 10µF	CCG1138
R 4858	(A,132,23)	RS1/16S560J	C 4010	(A,39,38)	CKSSYF104Z16	C 4131	(A,63,49)	CKSYF106Z10	C 4858	(A,138,30) 10µF	CCG1138			C 4859	(A,135,25)	CCSRCH681J50
R 4859	(A,128,30)	RS1/16S100J	C 4011	(A,41,41)	CKSSYF104Z16	C 4132	(A,54,46)	CCSRCH470J50	C 4859	(A,135,25)	CCSRCH681J50	Q	Q	C 4859	(A,135,25)	CCSRCH681J50
R 4861	(A,140,44)	RS1/16S104J	C 4012	(A,40,43)	CKSSYF104Z16	C 4133	(A,51,46)	CCSRCH470J50	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4862	(A,136,42)	RS1/16S102J	C 4013	(A,42,45)	CKSRYB392K50	C 4134	(A,60,49)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50	R	R	C 4859	(A,135,25)	CCSRCH681J50
R 4863	(A,140,47)	RS1/16S1102F	C 4015	(A,47,44)	CKSRYB105K6R3	C 4140	(A,67,47)	CKSQYB225K10	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4864	(A,138,41)	RS1/16S2001F	C 4016	(A,40,47)	CKSSYF104Z16	C 4141	(A,64,43)	CKSRYB105K6R3	C 4859	(A,135,25)	CCSRCH681J50	S	S	C 4859	(A,135,25)	CCSRCH681J50
R 4865	(A,148,40)	RS1/16S3302F	C 4017	(A,41,48)	CKSSYF104Z16	C 4142	(A,62,40)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4866	(A,148,41)	RS1/16S2401F	C 4018	(A,44,47)	CKSRYB104K16	C 4143	(A,63,59)	CSZS100M10	C 4859	(A,135,25)	CCSRCH681J50	T	T	C 4859	(A,135,25)	CCSRCH681J50
R 4867	(A,147,44)	RS1/16S5602F	C 4019	(A,44,49)	CKSRYB104K16	C 4144	(A,65,40)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4868	(A,149,42)	RS1/16S2703F	C 4020	(A,44,52)	CKSRYB104K16	C 4145	(A,68,40)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50	U	U	C 4859	(A,135,25)	CCSRCH681J50
R 4869	(A,148,44)	RS1/16S5602F	C 4021	(A,40,51)	CKSSYF104Z16	C 4151	(A,59,32)	CSZSR220M16	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4901	(A,95,25)	RS1/16S103J	C 4022	(A,46,55)	CKSSYF104Z16	C 4152	(A,48,33)	CKSRYB103K50	C 4859	(A,135,25)	CCSRCH681J50	V	V	C 4859	(A,135,25)	CCSRCH681J50
R 4902	(A,91,14)	RS1/16S103J	C 4023	(A,45,55)	CKSSYF104Z16	C 4153	(A,47,35)	CCSRCH470C50	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4903	(A,87,20)	RS1/16S392J	C 4024	(A,44,55)	CKSSYF104Z16	C 4154	(A,47,31)	CCSRCH470C50	C 4859	(A,135,25)	CCSRCH681J50	W	W	C 4859	(A,135,25)	CCSRCH681J50
R 4904	(A,89,20)	RS1/16S912J	C 4025	(A,41,52)	CKSSYF104Z16	C 4155	(A,54,38)	CCSRCH470C50	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4905	(A,87,17)	RS1/16S2003F	C 4026	(A,41,53)	CKSSYF104Z16	C 4156	(A,58,37)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50	X	X	C 4859	(A,135,25)	CCSRCH681J50
R 4906	(A,93,17)	RS1/16S153J	C 4027	(A,41,54)	CKSSYF104Z16	C 4160	(A,44,35)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 4907	(A,89,17)	RS1/16S153J	C 4028	(A,41,55)	CKSSYF104Z16	C 4161	(A,44,32)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50	Y	Y	C 4859	(A,135,25)	CCSRCH681J50
R 5001	(A,14,25) (EW)	RAB4CQ181J	C 4029	(A,41,56)	CKSSYF104Z16	C 4162	(A,51,38)	CKSRYF104Z25	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 5002	(A,17,35)	RAB4CQ151J	C 4030	(A,44,57)	CKSRYB104K16	C 4163	(A,57,28)	CKSRYB105K6R3	C 4859	(A,135,25)	CCSRCH681J50	Z	Z	C 4859	(A,135,25)	CCSRCH681J50
R 5003	(B,15,33)	RS1/16S103J	C 4031	(A,43,55)	CKSSYF104Z16	C 4164	(A,50,28)	CKSRYB105K6R3	C 4859	(A,135,25)	CCSRCH681J50			C 4859	(A,135,25)	CCSRCH681J50
R 5004	(A,17,9)	RAB4CQ151J	C 4032	(A,41,57)	CKSSYF104Z16	C 4165	(A,42,28)	CKSRYB105K6R3	C 4859	(A,135,25)	CCSRCH681J50	AA	AA	C 4859	(A,135,25)	CCSRCH681J50

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Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.		
X 401	TCXO 16.368MHz	CWX2381	R 532	(EW)	RS1/16SS104J	A	A	C 470	CKSSYB104K10	D 1101	Diode	1SS355	D 1301	Diode	UDZ2R7(B)	
X 501	Radiator 32.768kHz	CSS1319	R 533	(EW) (UC)	RS1/16SS332J			C 471	CCSSCH101J50	D 1102	Diode	1SS355		D 1302	Chip LED	CL205IRXTU
X 502	Radiator 20.00MHz	CSS1549	R 534		RS1/16SS103J			C 501	CKSSYB104K10	L 1301	Inductor	CTF1409		L 1301	Inductor	CTF1409
X 532	Radiator 4.332MHz (EW)	CSS1550	R 535		RS1/16SS103J	B	B	C 502	CCSRCH150J50	L 1302	Inductor	CTF1394	L 1302	Inductor	CTF1394	
F 401	Filter	CTF1548	R 536		RS1/16SS0R0J			C 503	CCSRCH150J50	L 1303	Inductor	CTF1395		L 1303	Inductor	CTF1395
			R 537	(EW)	RS1/16S0R0J			C 504	CKSSYB104K10	L 1305	Inductor	CTF1409	L 1506	Inductor	CTF1409	
			R 538	(EW)	RS1/16SS0R0J	C 506	CKSSYB104K10	L 1504	Inductor	CTF1394	L 1504	Inductor		CTF1394		
						C 507	CKSSYB104K10	L 1505	Inductor	CTF1409	L 1505	Inductor		CTF1409		
						C 508	CKSSYB104K10	L 1506	Inductor	CTF1473	L 1507	Inductor	CTF1473			
						C 509	CKSSYB104K10	L 1507	Inductor	CTF1473						
						C 511	CKSSYB104K10	L 1508	Inductor	CTF1473	L 1509	Inductor	CTF1399			
						C 512	CKSSYB104K10	L 1509	Inductor	CTF1399		L 1510	Inductor	CTF1409		
						C 514	CSZS100M6R3	L 1510	Inductor	CTF1409		L 1518	Inductor	CTF1385		
						C 515	CKSSYB104K10	L 1518	Inductor	CTF1385	L 1520	Inductor	CTF1399			
						C 516	CKSSYB104K10	L 1520	Inductor	CTF1399						
						C 517	CKSSYB104K10	L 1522	Inductor	CTF1395	L 1605	Inductor	CTF1379			
						C 518	CKSSYB104K10	L 1605	Inductor	CTF1379		L 1701	Inductor	CTF1395		
						C 535	CSZS100M6R3	L 1702	Inductor	CTF1409		L 1702	Inductor	CTF1409		
						C 539	CCSRCH100D50	L 1703	Inductor	CTF1473	L 1704	Inductor	CTF1473			
						C 540	CCSRCH100D50	X 1501	Radiator 27MHz	CSS1609		X 1701	Ceramic Resonator 4.97MHz	CSS1575		
						C 541	CCSRCH561J50	VR1502	Semi-Fixed 2.2k (B)	CCP1444						
						C 542	CKSSYB104K10									
						C 543	CSZS100M6R3									
						C 544	CCSRCH331J50									
						C 545	CKSSYB104K10									

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Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
R 1206	RS1/16SS102J	R 1383	RS1/16SS103J	R 1563	RS1/16SS4R7J	R 1716	RS1/16SS221J
R 1209	RS1/16SS221J	R 1391	RS1/16SS103J	R 1564	RAB4CQ0R0J	R 1717	RS1/16SS104J
R 1210	RS1/16SS393J	R 1392	RS1/16SS103J	R 1565	RS1/16S101J	R 1718	RS1/16SS104J
R 1211	RS1/16SS393J	R 1393	RS1/16SS103J	R 1566	RS1/16S101J	R 1720	RS1/16SS104J
R 1212	RS1/16SS393J	R 1394	RS1/16SS471J	R 1567	RAB4CQ0R0J	R 1721	RS1/16SS104J
R 1213	RS1/16SS393J	R 1395	RS1/16SS0R0J	R 1568	RS1/16S101J	R 1722	RS1/16SS104J
R 1214	RS1/16SS221J	R 1396	RS1/16SS0R0J	R 1569	RS1/16S101J	R 1723	RS1/16SS104J
R 1215	RS1/16SS1R0J	R 1401	RS1/16SS101J	R 1570	RS1/16S101J	R 1724	RS1/16SS222J
R 1216	RS1/16SS1R0J	R 1403	RAB4CQ220J	R 1571	RS1/16S220J	R 1725	RS1/16SS223J
R 1218	RS1/16SS221J	R 1404	RAB4CQ220J	R 1572	RAB4CQ0R0J	R 1726	RS1/16SS104J
R 1219	RS1/16SS221J	R 1405	RAB4CQ220J	R 1573	RS1/16SS473J	R 1727	RS1/16SS104J
R 1220	RS1/16SS221J	R 1406	RAB4CQ220J	R 1574	RAB4CQ0R0J	R 1728	RS1/16SS104J
R 1221	RS1/16SS822J	R 1407	RS1/16SS220J	R 1575	RAB4CQ0R0J	R 1730	RS1/16SS221J
R 1222	RS1/16SS822J	R 1408	RS1/16SS103J	R 1576	RAB4CQ0R0J	R 1731	RS1/16SS104J
R 1223	RS1/16SS822J	R 1409	RS1/16SS820J	R 1577	RAB4CQ0R0J	R 1732	RS1/16SS0R0J
R 1224	RS1/16SS563J	R 1410	RS1/16SS820J	R 1578	RS1/16SS472J	R 1733	RS1/16SS104J
R 1225	RS1/16SS243J	R 1411	RAB4CQ0R0J	R 1579	RS1/16SS101J	R 1734	RS1/16SS221J
R 1226	RS1/16SS473J	R 1412	RS1/16SS100J	R 1587	RS1/16SS101J	R 1735	RS1/16SS104J
R 1227	RS1/16SS473J	R 1413	RS1/16SS820J	R 1595	RS1/16SS472J	R 1736	RS1/16SS104J
R 1228	RS1/16SS1R0J	R 1414	RAB4CQ820J	R 1596	RS1/16SS472J	R 1737	RS1/16SS104J
R 1229	RS1/16SS1R0J	R 1415	RS1/16SS103J	R 1597	RS1/16SS104J	R 1738	RS1/16SS104J
R 1230	RS1/16SS1R0J	R 1418	RS1/16SS221J	R 1598	RS1/16SS270J	R 1739	RS1/16SS330J
R 1232	RS1/16SS822J	R 1421	RS1/16SS221J	R 1601	RS1/16SS821J	R 1740	RS1/16SS0R0J
R 1233	RS1/16SS243J	R 1423	RS1/16SS221J	R 1602	RS1/16SS821J	R 1741	RS1/16SS0R0J
R 1234	RS1/16SS391J	R 1424	RS1/16SS221J	C	C	R 1603	RS1/16SS0R0J
R 1235	RS1/16S471J	R 1425	RAB4CQ221J	R 1604	RS1/16SS0R0J	R 1742	RS1/16SS473J
R 1236	RS1/16SS513J	R 1426	RAB4CQ221J	R 1605	RS1/16SS102J	R 1746	RS1/16SS104J
R 1237	RS1/16SS513J	R 1501	RS1/16SS220J	R 1606	RS1/16SS102J	R 1748	RS1/16SS104J
R 1301	RS1/16SS222J	R 1502	RAB4CQ220J	R 1607	RS1/16SS222J	R 1749	RS1/16SS103J
R 1321	RS1/16SS104J	R 1503	RS1/16S101J	R 1608	RS1/16SS222J	R 1750	RS1/16SS473J
R 1322	RS1/16SS0R0J	R 1504	RAB4CQ220J	R 1609	RS1/16SS472J	R 1751	RS1/16SS103J
R 1323	RS1/16SS221J	R 1505	RS1/16S101J	R 1610	RS1/16SS472J	R 1752	RS1/16SS104J
R 1324	RS1/16SS221J	R 1506	RAB4CQ220J	R 1611	RS1/16SS472J	R 1753	RS1/16SS104J
R 1334	RS1/16SS221J	R 1512	RAB4CQ220J	R 1612	RS1/16SS472J	R 1754	RS1/16SS104J
R 1336	RS1/16SS103J	R 1518	RAB4CQ220J	D	D	R 1756	RS1/16SS104J
R 1337	RS1/16SS103J	R 1522	RAB4CQ220J	R 1613	RS1/16SS103J	R 1757	RS1/16SS472J
R 1338	RS1/16SS472J	R 1523	RS1/16S0R0J	R 1614	RS1/16SS103J	R 1758	RS1/16SS104J
R 1339	RS1/16SS273J	R 1527	RAB4CQ220J	R 1615	RS1/16SS472J	R 1759	RS1/16SS104J
R 1340	RS1/16SS472J	R 1533	RS1/16SS201J	R 1616	RS1/16SS472J	R 1760	RS1/16S1002D
R 1341	RS1/16SS273J	R 1534	RAB4CQ220J	R 1626	RS1/16SS0R0J	R 1761	RS1/16SS105J
R 1342	RS1/16SS273J	R 1538	RAB4CQ220J	R 1627	RS1/16SS0R0J	R 1762	RS1/16SS473J
R 1344	RS1/16SS273J	R 1539	RS1/16SS221J	R 1628	RS1/16SS0R0J	R 1763	RS1/16SS104J
R 1349	RS1/16SS562J	R 1542	RS1/16SS103J	R 1637	RS1/16SS104J	R 1764	RS1/16SS104J
R 1350	RS1/16SS242J	R 1543	RS1/16SS680J	R 1638	RS1/16SS104J	R 1765	RS1/16SS104J
R 1352	RS1/16S2702D	R 1544	RS1/16SS0R0J	R 1642	RS1/16SS221J	R 1767	RS1/16SS104J
R 1353	RS1/16SS102J	R 1545	RS1/16SS0R0J	R 1643	RS1/16SS221J	R 1768	RS1/16SS473J
R 1360	RS1/16SS153J	R 1549	RS1/16SS0R0J	R 1645	RS1/16SS0R0J	R 1769	RS1/16SS104J
R 1361	RS1/16SS105J	R 1550	RS1/16SS0R0J	R 1647	RS1/16SS221J	R 1770	RS1/16SS473J
R 1362	RS1/16SS473J	R 1551	RS1/16SS0R0J	R 1648	RS1/16SS221J	R 1771	RS1/16SS473J
R 1363	RS1/16SS101J	R 1552	RS1/16SS471J	R 1649	RS1/16SS101J	R 1773	RS1/16SS103J
R 1364	RS1/16SS123J	R 1553	RS1/16S68R0D	R 1650	RS1/16SS101J	R 1774	RS1/16SS473J
R 1365	RS1/16SS101J	R 1554	RS1/16SS471J	R 1651	RS1/16SS101J	R 1790	RS1/16SS473J
R 1367	RS1/16SS473J	R 1555	RS1/16SS0R0J	R 1653	RS1/16SS473J	R 1792	RS1/16SS0R0J
R 1369	RS1/16SS473J	R 1556	RS1/16SS750J	R 1656	RS1/16SS102J	R 1794	RS1/16SS222J
R 1375	RS1/16SS103J	R 1557	RS1/16SS0R0J	R 1701	RS1/16SS473J	R 1795	RS1/16SS104J
R 1376	RS1/16SS103J	R 1558	RS1/16SS622J	R 1704	RS1/16SS473J	R 1796	RS1/16SS473J
R 1377	RS1/16SS103J	R 1559	RS1/16SS103J	R 1706	RS1/16SS104J	R 1797	RS1/16SS104J
R 1378	RS1/16SS103J	R 1560	RAB4CQ0R0J	R 1707	RS1/16SS221J	R 1798	RS1/16SS104J
R 1379	RS1/16SS103J	R 1561	RS1/16SS122J	R 1708	RS1/16SS221J	R 1801	RS1/16SS104J
R 1380	RS1/16SS103J	R 1562	RS1/16SS162J	R 1714	RS1/16SS221J	R 1802	RS1/16SS104J
			RS1/16SS0R0J	R 1715	RS1/16SS473J	R 1803	RS1/16SS104J
						R 1804	RS1/16SS102J

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Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.	
R 1805		RS1/16S102J		C 1313	CKSSYB104K10	C 1529	CKSSYB224K10	C 1529	CKSSYB224K10	C 1720	CKSSYB224K10	C 1720	CKSSYB224K10	C 1721	CKSSYB104K10
CAPACITORS				C 1314	CKSSYB224K10	C 1530	CKSSYB224K10	C 1530	CKSSYB224K10	C 1721	CKSSYB224K10	C 1722	CKSSYB224K10	C 1723	CKSSYB224K10
C 1101	CSZSC470M16	C 1315	CKSSYB102K50	C 1315	CKSSYB102K50	C 1531	CKSSYB471K50	C 1531	CKSSYB471K50	C 1722	CKSSYB471K50	C 1723	CKSSYB104K10	C 1724	CKSSYB103K16
C 1102	CSZSR470M6R3	C 1316	CKSSYB393K16	C 1316	CKSSYB393K16	C 1532	CKSSYB104K10	C 1532	CKSSYB104K10	C 1723	CKSSYB104K10	C 1724	CKSSYB224K6R3	C 1727	CKSSYB224K6R3
C 1103	CKSSYB104K10	C 1317	CKSSYB104K10	C 1317	CKSSYB104K10	C 1533	CKSSYB104K10	C 1533	CKSSYB104K10	C 1724	CKSSYB104K10	C 1727	CKSSYB103K16		
C 1104	CKSSYB103K16	C 1318	CKSSYB103K16	C 1318	CKSSYB103K16	C 1534	CKSSYB224K10	C 1534	CKSSYB224K10	C 1727	CKSSYB224K10				
C 1105	CSZSR101M6R3	C 1319	CKSSYB104K10	C 1319	CKSSYB104K10	C 1535	CKSSYB104K10	C 1535	CKSSYB104K10						
C 1106	CKSSYB104K10	C 1320	CKSSYB103K16	C 1320	CKSSYB103K16	C 1538	CKSSYB104K10	C 1538	CKSSYB104K10						
C 1107	CKSSYB103K16	C 1329	CKSSYB104K10	C 1329	CKSSYB104K10	C 1539	CKSSYB105K10	C 1539	CKSSYB105K10						
C 1108	CKSSYB104K10	C 1330	CKSSYB183K25	C 1330	CKSSYB183K25	C 1540	CKSSYB105K10	C 1540	CKSSYB105K10						
C 1109	CKSSYB473K25	C 1331	CCSSCH470J50	C 1331	CCSSCH470J50	C 1542	CKSSYB104K10	C 1542	CKSSYB104K10						
C 1110	CKSSYB473K25	C 1332	CKSSYB224K10	C 1332	CKSSYB224K10	C 1543	CKSSYB224K10	C 1543	CKSSYB224K10						
C 1111	CKSSYB103K16	C 1333	CKSSYB224K10	C 1333	CKSSYB224K10	C 1544	CKSSYB104K10	C 1544	CKSSYB104K10						
C 1112	CKSSYB105K10	C 1334	CKSSYB102K50	C 1334	CKSSYB102K50	C 1547	CKSSYB104K10	C 1547	CKSSYB104K10						
C 1113	CKSSYB105K10	C 1335	CKSSYB562K25	C 1335	CKSSYB562K25	C 1548	CKSSYB104K10	C 1548	CKSSYB104K10						
C 1114	CKSSYB103K16	C 1336	CKSSYB104K10	C 1336	CKSSYB104K10	C 1549	CKSSYB104K10	C 1549	CKSSYB104K10						
C 1121	CKSSYB221K50	C 1337	CKSSYB102K50	C 1337	CKSSYB102K50	C 1550	CKSSYB104K10	C 1550	CKSSYB104K10						
C 1122	CKSSYB393K16	C 1338	CKSSYB102K50	C 1338	CKSSYB102K50	C 1551	CKSSYB104K10	C 1551	CKSSYB104K10						
C 1124	CKSSYB221K50	C 1339	CKSSYB102K50	C 1339	CKSSYB102K50	C 1552	CKSSYB104K10	C 1552	CKSSYB104K10						
C 1125	CKSSYB104K10	C 1340	CKSSYB104K10	C 1340	CKSSYB104K10	C 1554	CKSSYB104K10	C 1554	CKSSYB104K10						
C 1126	CKSSYB104K10	C 1341	CCSSCH101J50	C 1341	CCSSCH101J50	C 1555	CKSSYB104K10	C 1555	CKSSYB104K10						
C 1127	CKSSYB104K10	C 1342	CKSSYB391K50	C 1342	CKSSYB391K50	C 1556	CKSSYB104K10	C 1556	CKSSYB104K10						
C 1128	CKSSYB472K50	C 1343	CKSSYB471K50	C 1343	CKSSYB471K50	C 1557	CKSSYB104K10	C 1557	CKSSYB104K10						
C 1129	CKSSYB104K10	C 1344	CKSSYB331K50	C 1344	CKSSYB331K50	C 1558	CKSSYB104K10	C 1558	CKSSYB104K10						
C 1132	CKSSYB561K50	C 1346	CKSSYB224K10	C 1346	CKSSYB224K10	C 1559	CKSSYB104K10	C 1559	CKSSYB104K10						
C 1133	CKSSYB561K50	C 1347	CKSSYB104K10	C 1347	CKSSYB104K10	C 1560	CKSSYB104K10	C 1560	CKSSYB104K10						
C 1134	CKSSYB273K16	C 1348	CKSSYB104K10	C 1348	CKSSYB104K10	C 1562	CKSSYB104K10	C 1562	CKSSYB104K10						
C 1135	CKSSYB473K10	C 1349	CKSSYB104K10	C 1349	CKSSYB104K10	C 1563	CKSSYB104K10	C 1563	CKSSYB104K10						
C 1136	CKSSYB104K10	C 1350	CKSSYB104K10	C 1350	CKSSYB104K10	C 1564	CKSSYB104K10	C 1564	CKSSYB104K10						
C 1137	CKSSYB104K10	C 1351	CKSSYB104K10	C 1351	CKSSYB104K10	C 1566	CKSSYB104K10	C 1566	CKSSYB104K10						
C 1138	CKSSYB104K10	C 1352	CKSSYB104K10	C 1352	CKSSYB104K10	C 1567	CKSSYB104K10	C 1567	CKSSYB104K10						
C 1139	CKSSYB104K10	C 1401	CCSSCH181J25	C 1401	CCSSCH181J25	C 1605	CKSSYB471K50	C 1605	CKSSYB471K50						
C 1201	CKSSYB104K10	C 1402	CKSSYB104K10	C 1402	CKSSYB104K10	C 1606	CKSSYB471K50	C 1606	CKSSYB471K50						
C 1204	CEV101M16	C 1403	CKSSYB104K10	C 1403	CKSSYB104K10	C 1609	CKSSYB104K10	C 1609	CKSSYB104K10						
C 1205	CKSSYB104K10	C 1404	CKSSYB104K10	C 1404	CKSSYB104K10	C 1610	CKSSYB224K10	C 1610	CKSSYB224K10						
C 1206	CKSSYB103K50	C 1406	CKSSYB104K10	C 1406	CKSSYB104K10	C 1611	CKSSYB104K10	C 1611	CKSSYB104K10						
C 1207	CKSSYB103K50	C 1501	CKSSYB224K10	C 1501	CKSSYB224K10	C 1612	CKSSYB224K10	C 1612	CKSSYB224K10						
C 1208	CCSSCH5R0C50	C 1502	CKSSYB224K10	C 1502	CKSSYB224K10	C 1615	CKSSYB224K10	C 1615	CKSSYB224K10						
C 1209	CCSSCH470J50	C 1503	CKSSYB224K10	C 1503	CKSSYB224K10	C 1616	CKSSYB224K10	C 1616	CKSSYB224K10						
C 1213	CKSSYB104K25	C 1504	CKSSYB224K10	C 1504	CKSSYB224K10	C 1617	CKSSYB224K10	C 1617	CKSSYB224K10						
C 1214	CKSSYB104K25	C 1505	CKSSYB224K10	C 1505	CKSSYB224K10	C 1618	CKSSYB224K10	C 1618	CKSSYB224K10						
C 1215	CKSSYB104K10	C 1507	CKSSYB224K10	C 1507	CKSSYB224K10	C 1619	CKSSYB224K10	C 1619	CKSSYB224K10						
C 1216	CSZSC470M16	C 1508	CKSSYB224K10	C 1508	CKSSYB224K10	C 1641	CKSSYB104K16	C 1641	CKSSYB104K16						
C 1217	CKSSYB104K25	C 1510	CSZSC101M10	C 1510	CSZSC101M10	C 1650	CKSSYB475K16	C 1650	CKSSYB475K16						
C 1218	CSZSC470M16	C 1513	CKSSYB224K10	C 1513	CKSSYB224K10	C 1651	CKSSYB475K16	C 1651	CKSSYB475K16						
C 1221	CKSSYB104K25	C 1514	CKSSYB224K10	C 1514	CKSSYB224K10	C 1676	CKSSYB224K10	C 1676	CKSSYB224K10						
C 1301	CKSSYB104K10	C 1515	CKSSYB224K10	C 1515	CKSSYB224K10	C 1701	CKSSYB224K10	C 1701	CKSSYB224K10						
C 1302	CKSSYB104K10	C 1516	CKSSYB224K10	C 1516	CKSSYB224K10	C 1702	CKSSYB224K10	C 1702	CKSSYB224K10						
C 1303	CKSSYB224K6R3	C 1517	CKSSYB224K10	C 1517	CKSSYB224K10	C 1703	CKSSYB224K10	C 1703	CKSSYB224K10						
C 1304	CKSSYB104K10	C 1518	CKSSYB224K10	C 1518	CKSSYB224K10	C 1706	CKSSYB224K10	C 1706	CKSSYB224K10						
C 1305	CKSSYB224K6R3	C 1519	CKSSYB224K10	C 1519	CKSSYB224K10	C 1707	CKSSYB224K10	C 1707	CKSSYB224K10						
C 1306	CKSSYB471K50	C 1520	CKSSYB224K10	C 1520	CKSSYB224K10	C 1708	CKSSYB471K50	C 1708	CKSSYB471K50						
C 1307	CKSSYB104K10	C 1521	CKSSYB224K10	C 1521	CKSSYB224K10	C 1710	CKSSYB224K10	C 1710	CKSSYB224K10						
C 1308	CKSSYB224K10	C 1522	CKSSYB224K10	C 1522	CKSSYB224K10	C 1711	CKSSYB103K16	C 1711	CKSSYB103K16						
C 1309	CKSSYB104K10	C 1523	CKSSYB224K10	C 1523	CKSSYB224K10	C 1712	CKSSYB103K16	C 1712	CKSSYB103K16						
C 1310	CKSSYB104K10	C 1524	CKSSYB224K10	C 1524	CKSSYB224K10	C 1713	CKSSYB224K10	C 1713	CKSSYB224K10						
C 1311	CKSSYB103K16	C 1525	CKSSYB104K10	C 1525	CKSSYB104K10	C 1716	CKSSYB224K10	C 1716	CKSSYB224K10						
C 1312	CKSSYB103K16	C 1526	CKSSYB224K10	C 1526	CKSSYB224K10	C 1717	CKSSYB104K10	C 1717	CKSSYB104K10						
		C 1527	CKSSYB224K10	C 1527	CKSSYB224K10	C 1718	CKSSYB224K10	C 1718	CKSSYB224K10						
		C 1528	CKSSYB104K10	C 1528	CKSSYB104K10	C 1719	CKSSYB104K10	C 1719	CKSSYB104K10						

E

Unit Number:CWX3154
Unit Name:Compound Unit(A)

Q 1299	Photo-transistor	CPT231SCTD
S 1201	Spring Switch(12cm)	CSN1069
S 1202	Spring Switch(8cm)	CSN1069
S 1203	Spring Switch(DISC SENS)	CSN1069
S 1204	Spring Switch(DISC SENS)	CSN1070

S 1205	Spring Switch(8cm)	CSN1070
R 1298		RS1/16S0R0J
R 1299		RS1/16S0R0J

F

Unit Number:CWX3156
Unit Name:Compound Unit(B)

S 1206	Switch(CLAMP)	CSN1051
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M

Unit Number:CZW3087
Unit Name:Main Unit

MISCELLANEOUS

IC 3801	IC	BA00AST
IC 3802	IC	BA6247FP
IC 3803	IC	TA78L05F
IC 3804	IC	TC7814FU
IC 3805	Photo-interrupter	GP2L24B

Q 3801	Transistor	DTC124EU
Q 3802	Transistor	2SA1037K
Q 3803	Transistor	DTC124EU
D 3801	Diode	UDZ55R6(B)
D 3802	Diode	1SS355

L 3801	Inductor	LCTA150J2520
L 3802	Inductor	LCTA150J2520

RESISTORS

R 3801		RS1/16S103J
R 3802		RS1/16S222J
R 3803		RS1/16S471J
R 3804		RS1/16S102J
R 3805		RS1/16S102J

R 3806		RS1/16S102J
R 3807		RS1/16S102J
R 3808		RS1/16S103J
R 3809		RS1/16S222J
R 3810		RS1/16S222J

R 3811		RS1/16S102J
R 3812		RS1/16S102J

Circuit Symbol and No.

Part No.

R 3813	RS1/16S472J
R 3814	RS1/16S102J
R 3815	RS1/16S0R0J
R 3816	RS1/16S0R0J
R 3817	RS1/16S0R0J
R 3818	RS1/16S473J
R 3819	RS1/16S0R0J
R 3821	RS1/16S473J
R 3822	RS1/16S512J
R 3823	RS1/16S0R0J

CAPACITORS

C 3801	CKSQYB105K16
C 3802	CKSQYB105K16
C 3803	CKSRYB104K16
C 3804	CKSRYB104K16
C 3805	CKSRYB104K16
C 3806	CKSRYB223K50
C 3807	CKSRYB223K50
C 3808	CEVW101M16
C 3809	CEVW101M16
C 3810	CKSRYB104K16
C 3811	CEV100M16
C 3812	CKSRYB104K16
C 3813	CKSRYB102K50
C 3815	CKSQYB104K50
C 3819	CEVW101M16

N

Unit Number:CZW3088

Unit Name:SW Unit

S 3831	Switch (ANGLE)	CSN1052
S 3832	Switch (LIFT)	CSN1052

O

Unit Number:CZW3089

Unit Name:Volume Unit

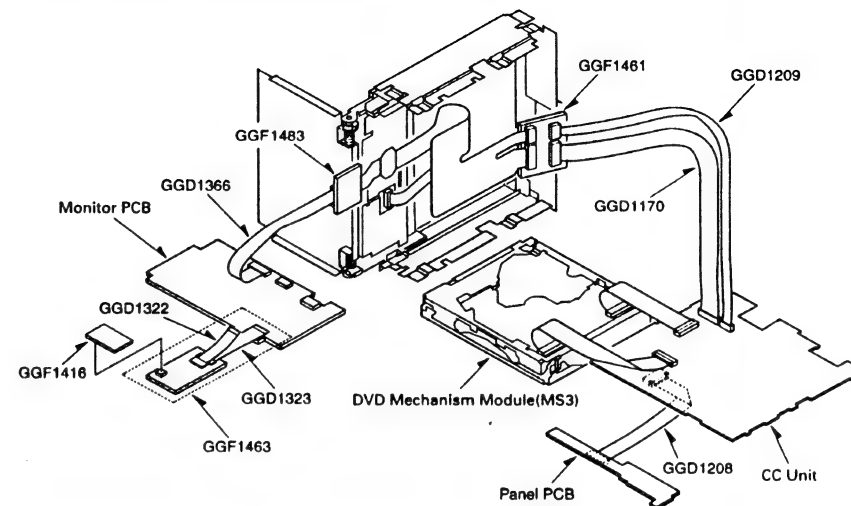
VR3841	Rotary (Angle sense)	CCW1025
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Miscellaneous Parts List

M 1	Pickup Unit(Service)(DP5)	CXX1915
M 2	Motor Unit(LOADING)	CXC4659
M 3	Motor Unit(CARRIAGE)	CXC4314
M 3	Motor(SPINNLE)	CXM1308
M 3001	Motor Unit(Position)	CXB9515
M 3002	Motor Unit(Angle)	CXB9516
M 100	Fan Motor	CXM1284
M 101	Fan Motor	CXM1289
M 102	Fan Motor	CXM1293
	LCD Panel	CWX3056
	LCD	CAW1870

6. ADJUSTMENT

6.1 JIG CONNECTION DIAGRAM



*1) After connecting the Hideaway Unit, please perform adjustment.

JIG's List

Function	Name	Jig No.
CC Unit (CN809) <--> Main Unit (CN3801)	PCB	GGF1461
CC Unit (CN809) <--> GGF1461	40P FFC	GGD1170
CC Unit (CN609) <--> GGF1461	20P FFC	GGD1209
CC Unit (CN808) <--> Monitor PCB (CN4002)	PCB	GGF1483
CC Unit (CN2701) <--> Panel PCB (CN5901)	18P FFC	GGD1208
Monitor PCB (CN4002) <--> GGF1483	36P FFC	GGD1366
Monitor Adjustment PCB (*2)	PCB	GGF1416
JIG connector Assy (*2)	PCB and FFC	GGF1463
Monitor PCB (*FOR SERVICE* 14P terminal) <--> GGF1463 (*2)	14P FFC	GGD1323
TEST DISC (Operation check)	CD-ROM or DVD-ROM	GGV1137

*2) Since this product does not have OSD IC, OSD for adjustment is displayed by using GGF1416 and GGF1463 at the time of monitor adjustment. As you will find lands for 14 pins with 0.8mm pitch at the left top part of the monitor board, directly solder a flexible PCB of GGD1323 for adjustment. As GGD1322 is not used, be careful not to short the terminal.

6.2 DVD ADJUSTMENT



1) Precautions

This product uses 5V and 3.3V as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2V) and VHALF (approximately 1.65V).

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up. The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device. When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- After the power supply is turned on, regulator ON the following adjustment and measurement are promptly done.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.
- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed.
- Press the EJECT key only after the disk has stopped completely.
- If the product hangs up turn the power OFF immediately.
- Laser diodes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

Attention)

- Test mode starting procedure
Please select "MS3 check" (page 230) to start test mode.

(Additional Information)

IP-BUS slave unit (i.e. Multi-CD changer) test mode starting procedure.

- To enter the test mode
While pressing the SOURCE and ANGLE- keys at the same time, reset.

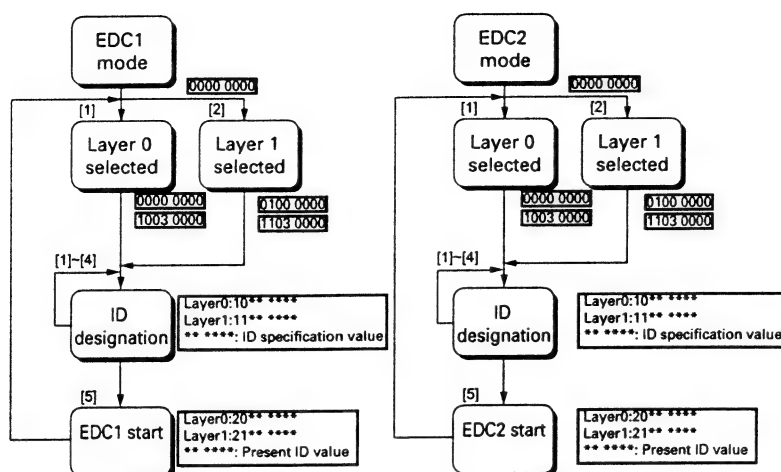
• Key Assign table

AVIC-N2/XU/UC or AVIC-X1R/XU//EW	MAIN UNIT KEY (6 keys type)
UP	UP
DOWN	DOWN
LEFT	LEFT
RIGHT	RIGHT
BAND	BAND
REAR	1
WIDE	2
ENT	3
ANGLE-	4
ANGLE+	5
EQ	6

* Refer to service manual for adjustment of the slave unit.

A





F-close and F-search cannot be executed, unless LD-ON is set.

[If F-close isn't executed within 9 seconds after LD-ON, it switches to LD-OFF automatically.

And even if F-search is executed within 9 seconds after LD-ON, it also switches to LD-OFF.]

Please carry out F-close after carrying out power-off at once and carrying out power-on again, when carrying out F-close after performing F-search.

The track number designation is selected from the track numbers already prepared for selection. Switching to cyclic operation is made at step REAR, and the decision is finalized (entered) in step BACK/TEXT.

For CD: Tracks 1, 4, 10, 11 and 32.

For DVD: Tracks 1, 4, 10, 11, 32, 64 and 100.

Method for designating an ID address:

- A number of digits are determined through commands RIGHT and LEFT. Numerical UP/DOWN operations are performed through commands REAR and BACK/TEXT. The decision is finalized (entered) with command ATT.

Display

Error Code List

Error status from DVD microcomputer	Contents	Display
0X50	Mecha. error	No display
0X40	No disc	No display
0X30	The temperature is abnormal	Thermal Protection in Motion
0X20	Read error	Error-02-XX
0XE2	Non-playable disc	NON-PLAYABLE DISC
0X90	Different region disc	DIFFERENT REGION DISC
0XFF	Undefined error	Error-FF

Error code of read error(Part of XX)

Error Code	Contents	Display
0X99	Data cannot read	Please confirm the disc
0X80	The address cannot be found	Please confirm the disc
0X90	Focus error	Please confirm the disc
0X91	Spindle lock NG	DVD is stopping because mechanism detected abnormality
0X92	Carriage home NG	DVD is stopping because mechanism detected abnormality
0X93	FOK error	Please confirm the disc
0X94	ID/Subcode cannot be read	Please confirm the disc
0X95	High spindle rotation	DVD is stopping because mechanism detected abnormality
0X96	Row spindle rotation	DVD is stopping because mechanism detected abnormality
0X98	TOC cannot be found	Please confirm the disc
0X9A	AV chip error	DVD is stopping because mechanism detected abnormality
0X9B	RecoveryNG(BE)	DVD is stopping because mechanism detected abnormality
0X9C	Play state error	
0X9D	Disc data error	
0X9E	Surface error (Disc distinction is improper)	

● Skew adjustment

The skew adjustment is to adjust the pickup and the flatness of the disc so that the beam from the pickup continues to go to the disc vertically. In MS3 mecha, the pickup shaft on the inner track near the carriage motor is fixed, so the fixed position is regarded as the standard and the flatness is adjusted. Observing the RF waveform on the oscilloscope, repeat the adjustment on the inner track position and the outer track position, and narrow the adjusted value.

If any of the following replacements have been performed on the system, adjustments for pick up, must be conducted:

1. Pick up unit replacement
2. Spindle motor replacement
3. Carriage chassis replacement
4. Pick up unit main shaft replacement
5. Pick up unit sub-shaft replacement

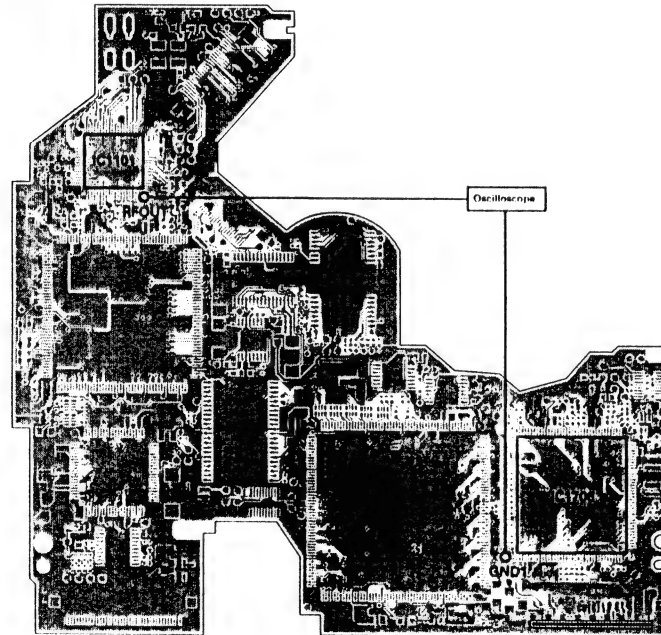
Measurement device and tools : Oscilloscope
 Allen key wrench
 40-pin flexible extension (GGD1170)
 Screw rock (GYL1001)

Disk used : GGV1018

Measurement reference : GND1

Measurement point : RFOUT

Connection diagram
 DVD core unit (MS3)



Symptoms in case of poor adjustment: Error efficiency deteriorated: 10^{-3} (Optimum value: 10^{-4} or lower)

High jitter of the RF signal RF waveform deformed

Unstable operation in tracking closing and servo control

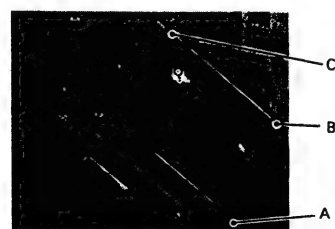
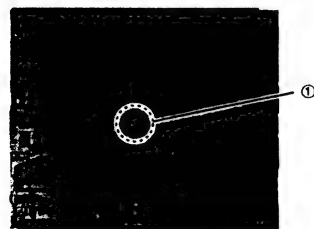
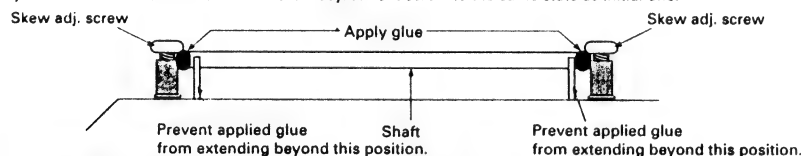
Caution: Avoid exposing your eyes to laser beams for a long time.

Preparation for adjustment: Clean both ends of the shafts.

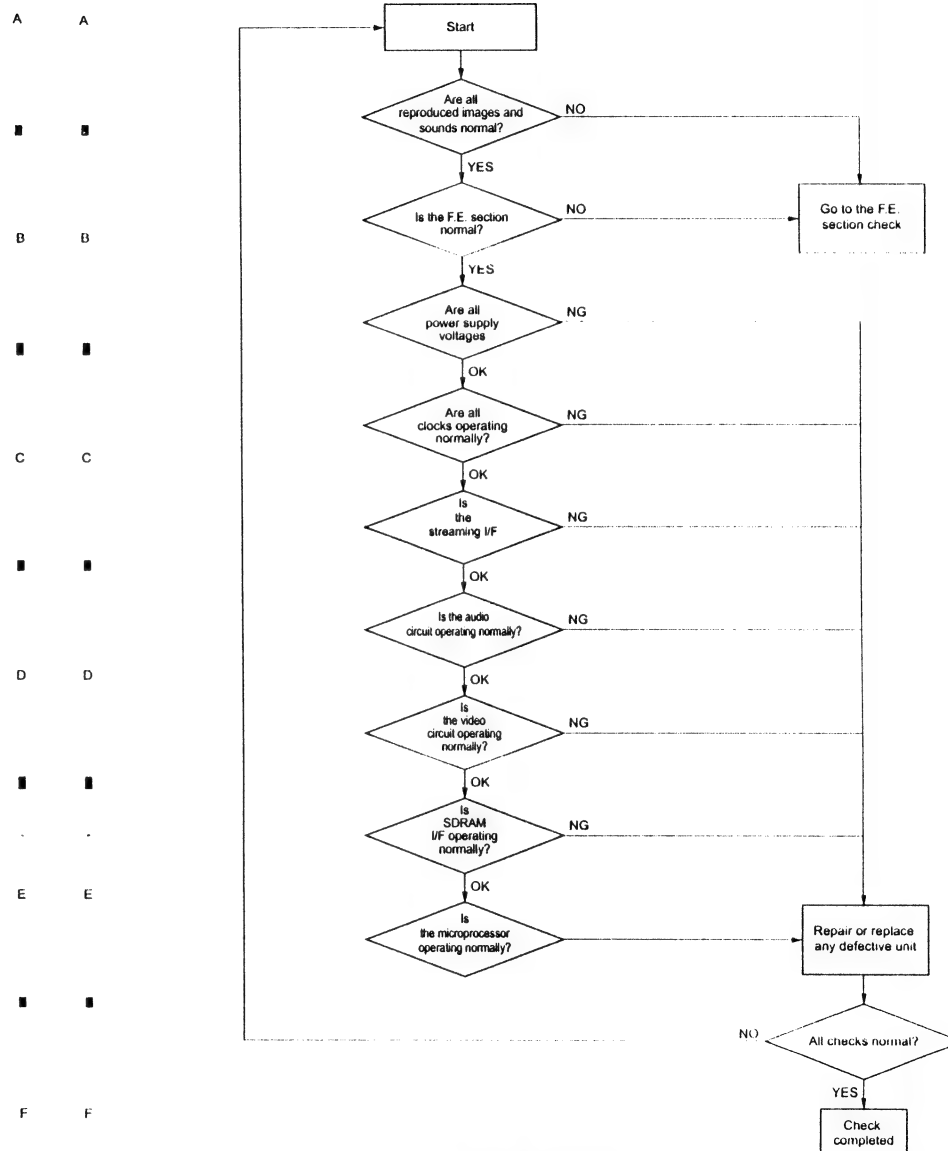
Use brand new skew screws supplied with the service kit GXX1234.

Procedures:

1. Place the DVD mechanism module upside down.
To avoid the disc from being robbed when it is turned upside down, first put a coin of about 1.5 mm on the table, then turn the disc upside down and set it so that the ① in the figure comes to the point immediately above the coin.
2. After replacing the pickup (by referring to the procedures of "Removing the Pickup."), roughly adjust the three skew screws through visual check so that the pickup is mounted in parallel to the CRG chassis around the inner and outer tracks.
3. Connect an oscilloscope as shown in the connecting diagram.
4. Turn on the power of the product. Load the test disc (GGV1018).
5. In the front-end test mode, set the disc type to DVD layer 1. Then, turn on the power. Move the pickup toward the inner tracks.
6. Turn on the laser diodes.
7. With the focus servo closed, complete all automatic adjustments. Close the tracking servo, and then complete all automatic adjustments.
- 8 Follow the next procedures, from 8-1 to 8-5, and adjust the (three) skew screws.
- 8-1 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level of oscilloscope becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)
- 8-2 Move the pickup toward the outer track and turn the skew adjustment screw B so that the RF level becomes the maximum.
(Tangential adjustment at the outer track position: Adjust the flatness of the disc at the outer track position with the adjustment screw B)
- 8-3 Leave the pickup at the outer track position and turn the skew adjustment screws A and B in the same direction alternately one quarter at a time (A-B-A-B ...) so that the RF level becomes the maximum.
(Radial adjustment at the outer track position: Keeping the flatness at the outer track position, adjust the flatness of the whole disk with the adjustment screws A and B)
- 8-4 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)
- 8-5 Repeat the steps from 8-2 to 8-4 three times, and adjust at the position where the RF level becomes the maximum.
9. Turn off the power in the test mode. After confirming that the disc has stopped, eject the disc.
10. Adjust with a screw rock the shaft and skew adjustment screw to the same state as initial one.



● Back end section check flow chart



Check 1: Are all power supply voltages normal?

Reproduce DVD-REF-A1 Title 1.

Verify the voltage of the sensing pin.

If results are not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components.

NO.	Verification location	Rated value	Unit
1	VD8-PGND	8±0.4	V
2	VD33-GND	3.3±0.3	V
3	SRVDD33-GND	3.3±0.3	V
4	VCC5-GND	5±0.25	V
5	AVCC5-GND	5±0.3	V
6	VCC33-GND	3.3±0.15	V
7	VCC18-GND	1.8±0.15	V
8	VCC25-GND	2.5±0.2	V

Check 2: Are all clocks operating normally?

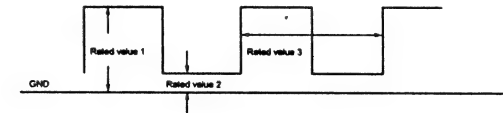
Reproduce DVD-REF-A1 Title 1.

Checks are to be conducted with a GND reference.

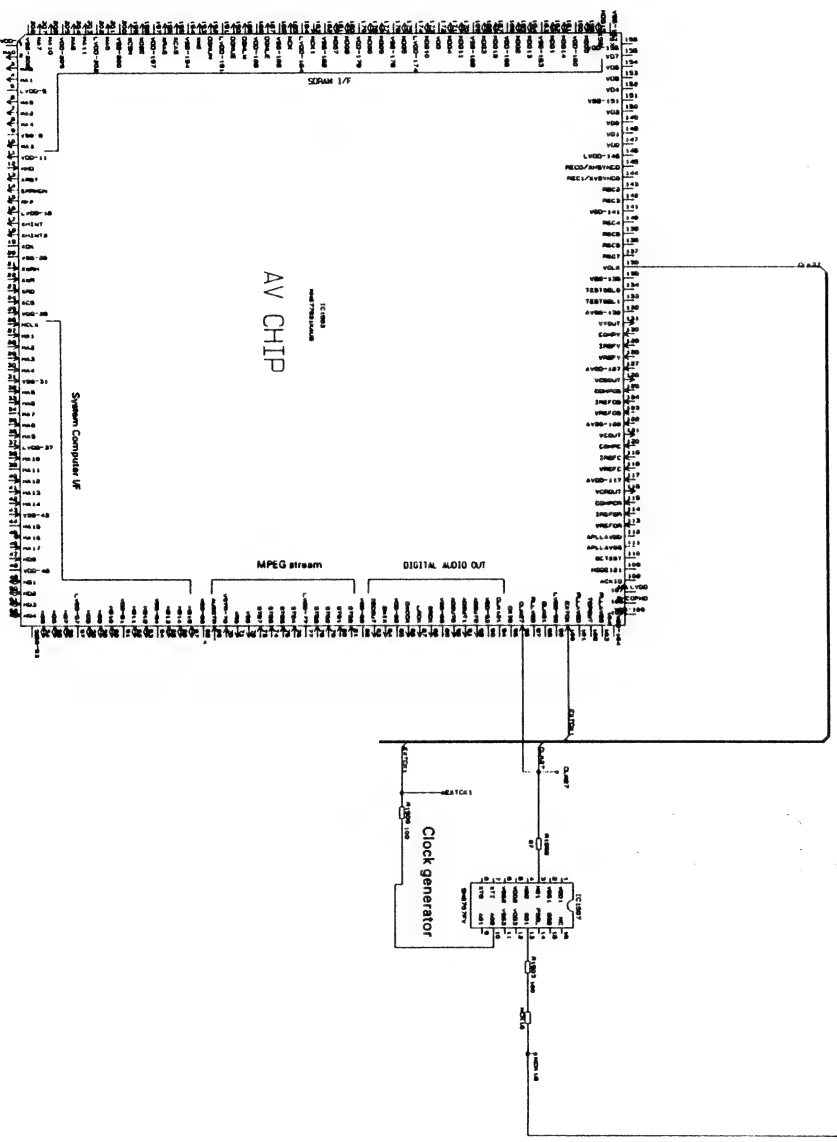
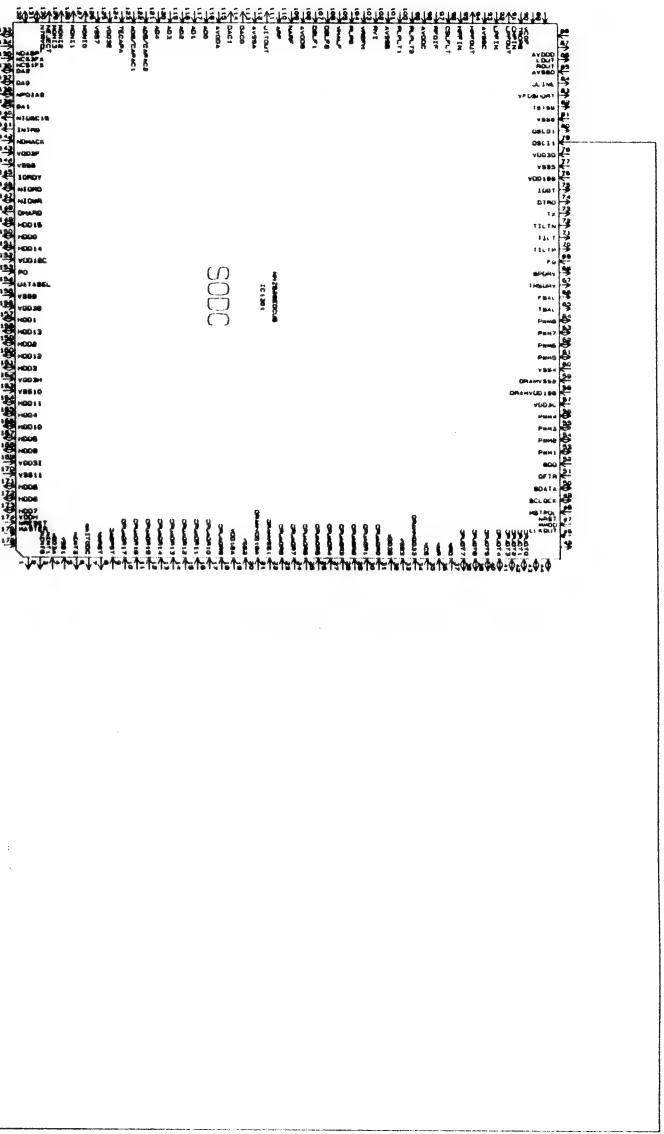
If locations listed under "verification location 2", can be verified, there will be no need to perform verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in the vicinity of IC1507.

NO.	Verification location 1 (contact measurements)	Verification location 2	Media	Rated value1	Rated value 2	Rated value 3
1	CLK27	IC1503 96pin	ALL	2.65V-VCC33	GND-0.65V	27MHz±50ppm
2	EXTCK1	IC1503 100pin	DVD	2.65V-VCC33	GND-0.65V	36.8640MHz±100ppm
3	EXTCK1	IC1503 100pin	CD	2.65V-VCC33	GND-0.65V	33.8688MHz±100ppm
4	MCK16	IC1301 79pin	ALL	2.33-VCC33	GND-0.99V	16.9344MHz±100ppm
5	MCK33	IC1601 3,33pin	ALL	2.33-VCC33	GND-0.10V	33.8688MHz-40.0000MHz



Clock rated values



AVC-2000

Check 3: Is the streaming I/F operating normally?

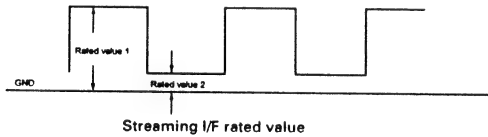
Reproduce DVD-REF-A1 Title 1.

Checks are to be conducted with a GND reference.

If the locations listed under "verification location 2" can be verified, then there is no need to conduct verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output" "input" of the checked location.

NO.	Verification location 1 (contact measurements)	Verification location 2	Verification Media	Rated value 1	Rated value 2	Reference waveform	Others
1	STD0	IC1503 81pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD8 at R1425
2	STD1	IC1503 80pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD9 at R1425
3	STD2	IC1503 79pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD10 at R1425
4	STD3	IC1503 78pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD11 at R1425
5	STD4	IC1503 76pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD12 at R1426
6	STD5	IC1503 75pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD13 at R1426
7	STD6	IC1503 74pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD14 at R1426
8	STD7	IC1503 73pin	DVD	2V-VCC33	GND-0.8V	Waveform 1	Line name OHDD15 at R1426
9	STCLK	IC1503 70pin	DVD	2V-VCC33	GND-0.8V	Waveform 2	Line name ODA2 at IC1405
10	STVALID	IC1503 69pin	DVD	2V-VCC33	GND-0.8V	Waveform 2	Line name OINTRQ at IC1405
11	MASTER	IC1301 176pin	DVD	2V-VCC33	GND-0.8V	Waveform 2	Line name STENABLE at IC1405



Check 4: Is the audio circuit operating normally?

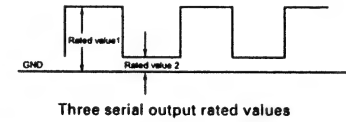
Reproduce DVD-REF-A1 Title 2 Chapter (48V/16-bit/1 kHz/0dB). Verify the circuit described in Figure 2.

Checks are to be conducted using GND/DAU1 (sensing pins) as a reference.

If the locations, listed under "verification location 2", can be verified, there is no need to conduct verifications for the locations listed under "verification location 1."

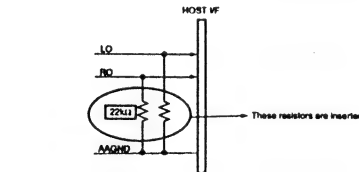
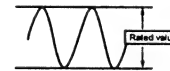
If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in the vicinity of the main components.

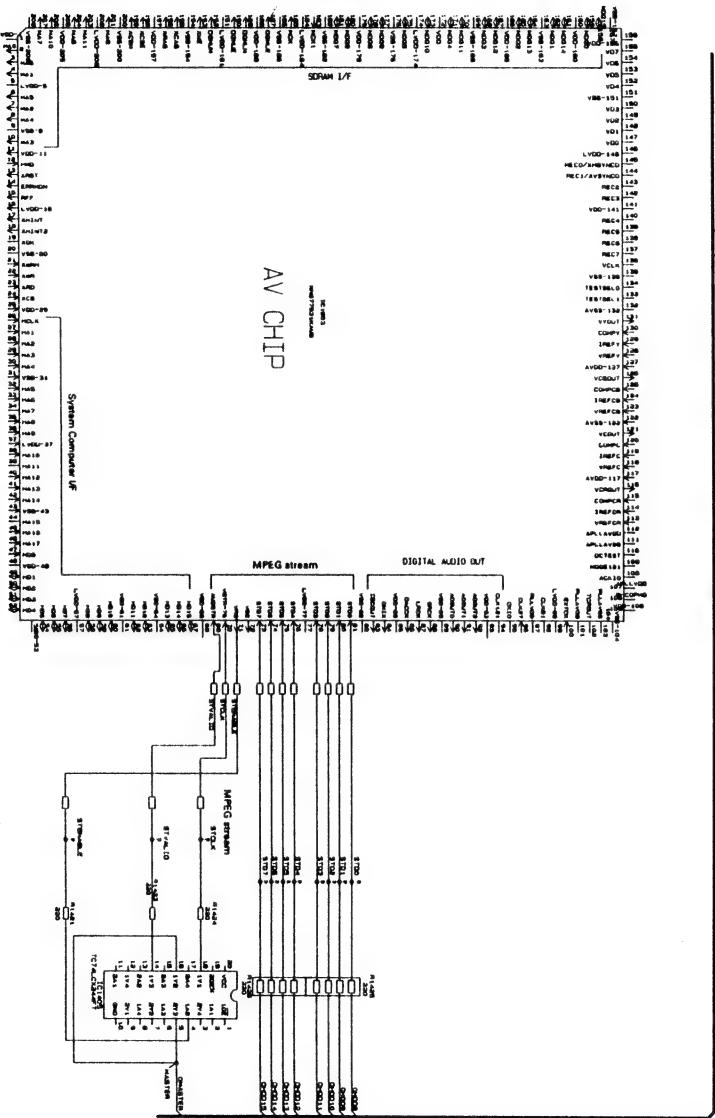
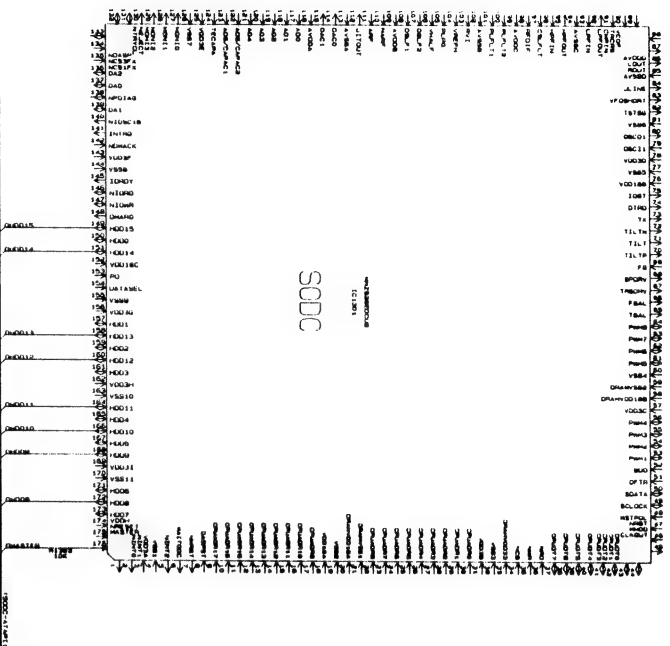
NO.	Verification location 1	Verification location 2	Rated value 1	Rated value 2	Reference waveform
1	AOUT0	IC1503 90pin	2.0V and over	0.8V and lower	Waveform 3
2	SRCK	IC1605 1pin	2.0V and over	0.8V and lower	Waveform 3
3	LRCK	IC1605 3pin	2.0V and over	0.8V and lower	Waveform 3

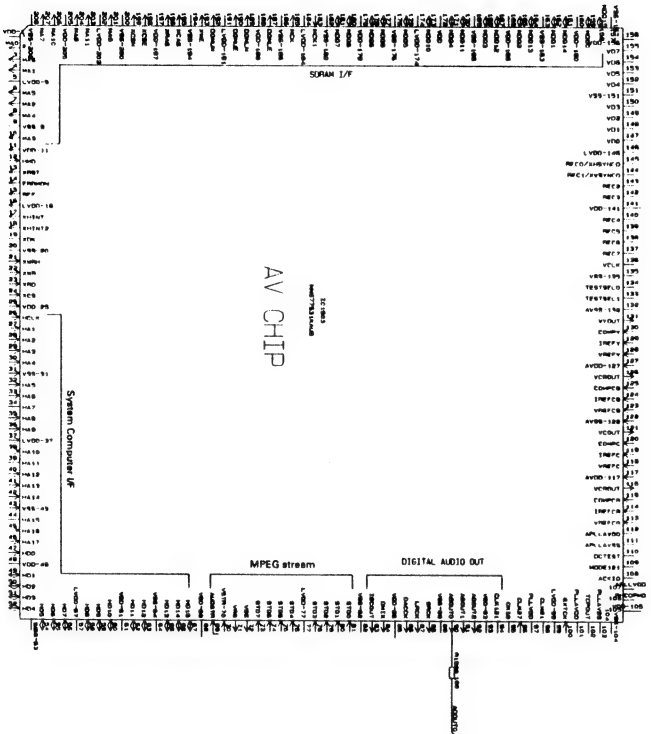
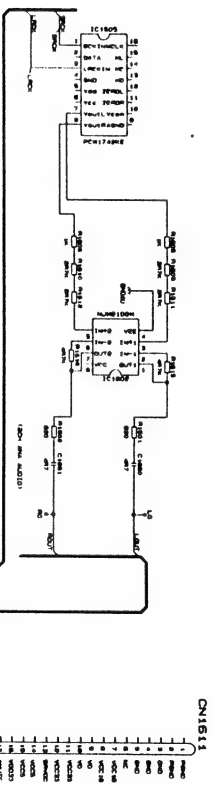


Checks are conducted with the measurement circuit below.

NO.	Verification location 1	Verification location 2	Rated value	Reference waveform
4	LO	CN1611 36pin	1100±150mV	Waveform 4
5	RO	CN1611 34pin	1100±150mV	Waveform 4







AVIC-N2RXU100

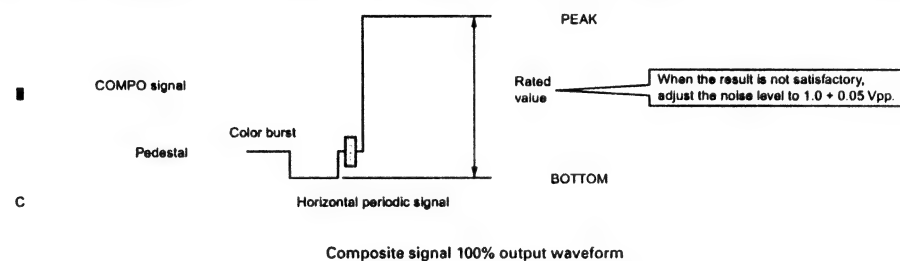
Check 5: Is the video circuit operated normally?

Reproduce DVD-REF-A1 Title 2 Chapters (White 100IRE).

- A Monitor the output with the oscilloscope, by setting the COMPO signal to a GND reference.
Set the Trigger mode to the TV trigger, and the Trigger line to line-150.

NO.	Verification location (sensing pin)	Rated value	Reference waveform
1	COMPO	$1.0 \pm 0.05V_{pp}$	Waveform 5

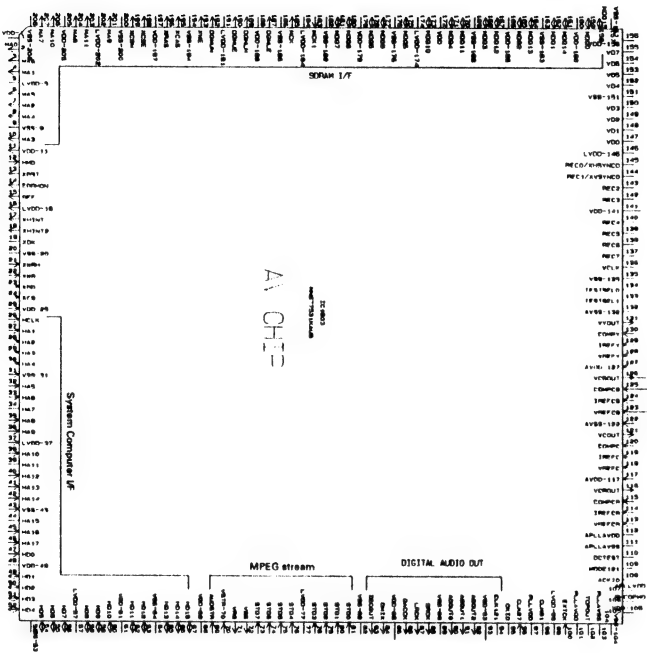
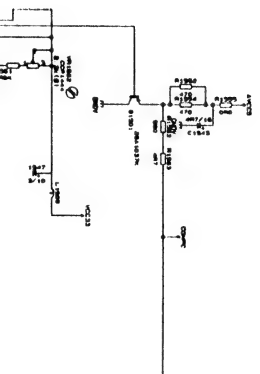
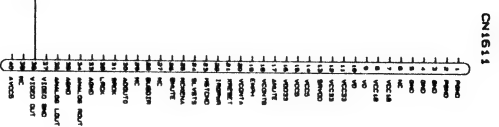
If the result is not satisfactory, check to see if there are any problems with resin flux cored solder, parts and components, in the vicinity of line-150 (the section marked ⑤ in the circuit diagram) and peripheral components.



D

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AVIC-N2X0UG

Check 6: Is SDRAM I/F operating normally?

Reproduce DVD-REF-A1 Title 1.

A

Check the conductivity of both the "Verification location 1" and the "Verification location2."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output "input" of the checked location.

B

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NO.	Signal name	Verification location 1	Verification location 2	Rated value
1	MA0	IC1501 23pin	IC1503 2pin	22Ω ± 5%
2	MA1	IC1501 24pin	IC1503 4pin	22Ω ± 5%
3	MA2	IC1501 25pin	IC1503 7pin	22Ω ± 5%
4	MA3	IC1501 26pin	IC1503 10pin	22Ω ± 5%
5	MA4	IC1501 29pin	IC1503 8pin	22Ω ± 5%
6	MA5	IC1501 30pin	IC1503 6pin	22Ω ± 5%
7	MA6	IC1501 31pin	IC1503 3pin	22Ω ± 5%
8	MA7	IC1501 32pin	IC1503 207pin	22Ω ± 5%
9	MA8	IC1501 33pin	IC1503 204pin	22Ω ± 5%
10	MA9	IC1501 34pin	IC1503 201pin	22Ω ± 5%
11	MA10	IC1501 22pin	IC1503 206pin	22Ω ± 5%
12	MA11	IC1501 20pin	IC1503 203pin	22Ω ± 5%
13	MDQ0	IC1501 2pin	IC1503 159pin	22Ω ± 5%
14	MDQ1	IC1501 4pin	IC1503 162pin	22Ω ± 5%
15	MDQ2	IC1501 5pin	IC1503 165pin	22Ω ± 5%
16	MDQ3	IC1501 7pin	IC1503 168pin	22Ω ± 5%
17	MDQ4	IC1501 8pin	IC1503 171pin	22Ω ± 5%
18	MDQ5	IC1501 10pin	IC1503 175pin	22Ω ± 5%
19	MDQ6	IC1501 11pin	IC1503 178pin	22Ω ± 5%
20	MDQ7	IC1501 13pin	IC1503 181pin	22Ω ± 5%
21	MDQ8	IC1501 42pin	IC1503 180pin	22Ω ± 5%
22	MDQ9	IC1501 44pin	IC1503 177pin	22Ω ± 5%
23	MDQ10	IC1501 45pin	IC1503 173pin	22Ω ± 5%
24	MDQ11	IC1501 47pin	IC1503 170pin	22Ω ± 5%
25	MDQ12	IC1501 48pin	IC1503 167pin	22Ω ± 5%
26	MDQ13	IC1501 50pin	IC1503 164pin	22Ω ± 5%
27	MDQ14	IC1501 51pin	IC1503 161pin	22Ω ± 5%
28	MDQ15	IC1501 53pin	IC1503 158pin	22Ω ± 5%
29	MCK	IC1501 38pin	IC1503 185pin	22Ω ± 5%
30	XWE	IC1501 16pin	IC1503 193pin	22Ω ± 5%
31	XCAS	IC1501 17pin	IC1503 195pin	22Ω ± 5%
32	XRAS	IC1501 18pin	IC1503 196pin	22Ω ± 5%
33	XCSE	IC1501 19pin	IC1503 199pin	22Ω ± 5%
34	XCSE	IC1501 35pin	IC1503 198pin	22Ω ± 5%
35	DQMUM	IC1501 39pin	IC1503 192pin	22Ω ± 5%
36	DQMLM	IC1501 15pin	IC1503 189pin	22Ω ± 5%
37	DQMUE	IC1501 21pin	IC1503 190pin	22Ω ± 5%

Check 7: Is the microprocessor operating normally?

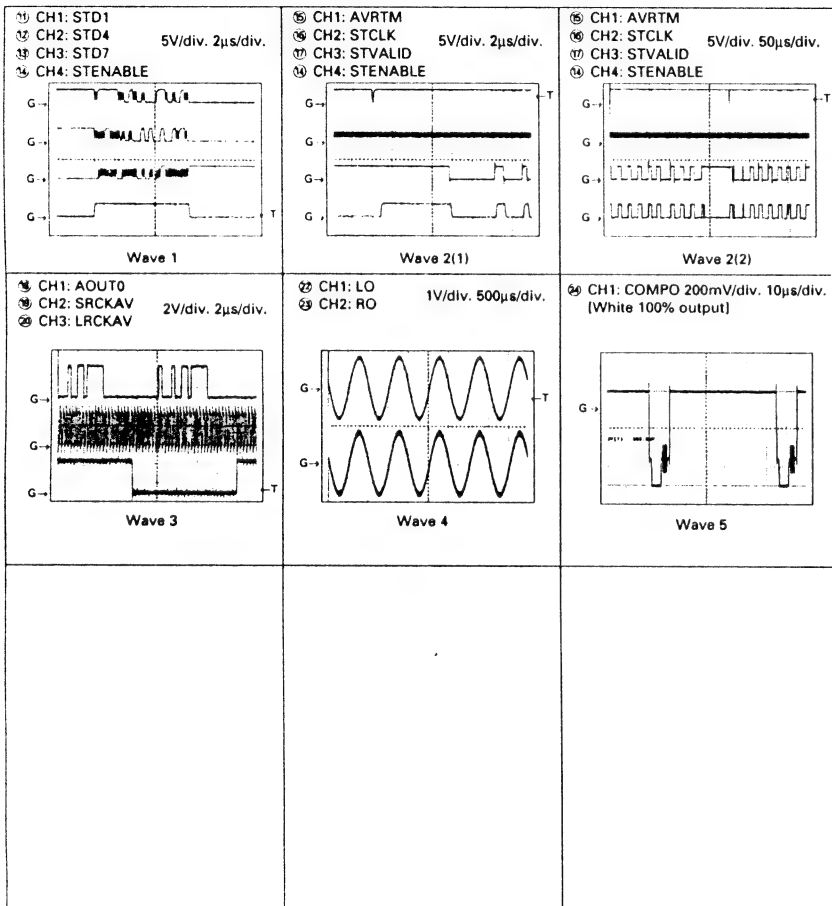
Check the conductivity of both the "Verification location 1" and the "Verification location2."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output-input" of the checked location.

NO.	Signal name	Verification location 1	Verification location 2	Verification Media	Rated value	Others
1	A1	IC1701 142pin	IC1503 27pin	ALL	0Ω	
2	A2	IC1701 141pin	IC1503 28pin	ALL	0Ω	
3	A3	IC1701 140pin	IC1503 29pin	ALL	0Ω	
4	A4	IC1701 139pin	IC1503 30pin	ALL	0Ω	
5	A5	IC1701 138pin	IC1503 32pin	ALL	0Ω	
6	A6	IC1701 137pin	IC1503 33pin	ALL	0Ω	
7	A7	IC1701 136pin	IC1503 34pin	ALL	0Ω	
8	A8	IC1701 133pin	IC1503 35pin	ALL	0Ω	
9	A9	IC1701 132pin	IC1503 36pin	ALL	0Ω	
10	A10	IC1701 131pin	IC1503 38pin	ALL	0Ω	
11	A11	IC1701 130pin	IC1503 39pin	ALL	0Ω	
12	A12	IC1701 129pin	IC1503 40pin	ALL	0Ω	
13	A13	IC1701 128pin	IC1503 41pin	ALL	0Ω	
14	A14	IC1701 127pin	IC1503 42pin	ALL	0Ω	
15	A15	IC1701 126pin	IC1503 44pin	ALL	0Ω	
16	A16	IC1701 123pin	IC1503 45pin	ALL	0Ω	
17	A17	IC1701 122pin	IC1503 46pin	ALL	0Ω	
18	D0	IC1701 17pin	IC1503 47pin	ALL	0Ω	
19	D1	IC1701 16pin	IC1503 49pin	ALL	0Ω	
20	D2	IC1701 15pin	IC1503 50pin	ALL	0Ω	
21	D3	IC1701 14pin	IC1503 51pin	ALL	0Ω	
22	D4	IC1701 13pin	IC1503 52pin	ALL	0Ω	
23	D5	IC1701 12pin	IC1503 54pin	ALL	0Ω	
24	D6	IC1701 11pin	IC1503 55pin	ALL	0Ω	
25	D7	IC1701 10pin	IC1503 56pin	ALL	0Ω	
26	D8	IC1701 7pin	IC1503 58pin	ALL	0Ω	
27	D9	IC1701 6pin	IC1503 59pin	ALL	0Ω	
28	D10	IC1701 5pin	IC1503 60pin	ALL	0Ω	
29	D11	IC1701 4pin	IC1503 62pin	ALL	0Ω	
30	D12	IC1701 3pin	IC1503 63pin	ALL	0Ω	
31	D13	IC1701 2pin	IC1503 65pin	ALL	0Ω	
32	D14	IC1701 1pin	IC1503 66pin	ALL	0Ω	
33	D15	IC1701 144pin	IC1503 67pin	ALL	0Ω	
34	XCSAVR	IC1701 101pin	IC1706 1pin	ALL	0Ω	
35	XCSAVW	IC1701 100pin	IC1706 2pin	ALL	0Ω	
36	XCSAV	IC1708 4pin	IC1503 24pin	ALL	0Ω	
37	XAVINT	IC1701 42pin	IC1503 17pin	ALL	0Ω	
38	XAVINT2	IC1701 41pin	IC1503 18pin	ALL	0Ω	
39	XRD	IC1701 95pin	IC1503 23pin	ALL	0Ω	
40	CLKOUT	IC1701 90pin	IC1505 3pin	ALL	33Ω	Dividing circuitFor verification location 2, include also IC1502 pin-3
41	HCLK	IC1502 5pin	IC1503 26pin	ALL	200Ω ± 5 %	
42	XSRAMWR	IC1701 105pin	IC1505 1pin	ALL	0Ω	
43	XHWR	IC1504 8pin	IC1503 21pin	ALL	68Ω ± 5 %	

Note:1 The encircled number denote measuring points in the circuit diagram.
2 Reference voltage VHALF : 1.65V

A



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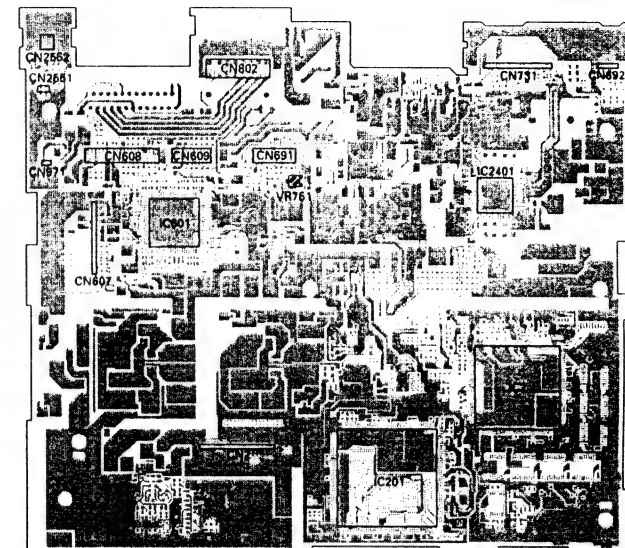
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6.3 CC UNIT ADJUSTMENT

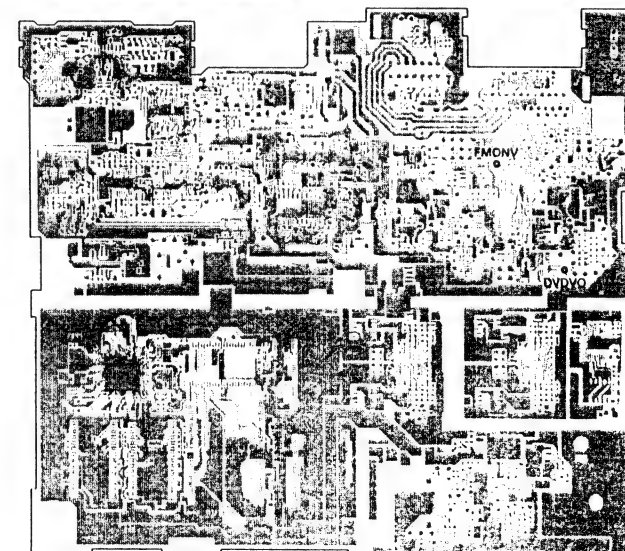


● Adjustment point

CC UNIT(SIDE A)



CC UNIT(SIDE B)



A

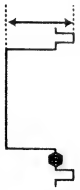
B

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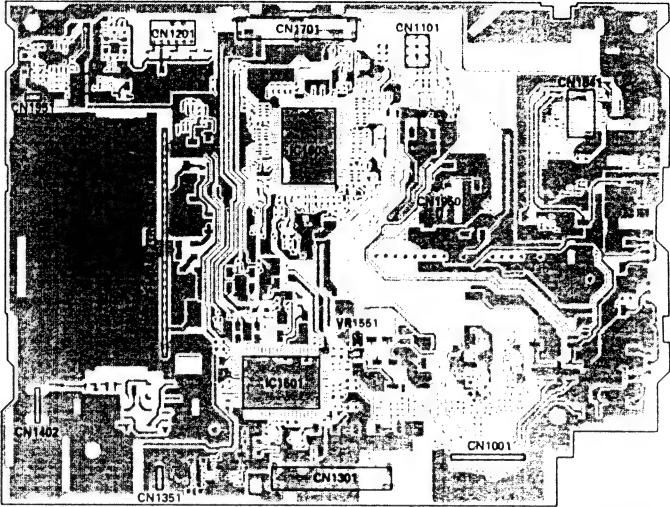
F

Step	Adjustment item	Mode	Input (input test pin specs, other conditions)	Output (measuring point, waveform)	Measuring instruments	Specs	Adjusting point
1	Main video level	VTR	Input test pin : DVDVO Signal : 100IRE(white 100%) Level : 1.0Vp-p(via 75Ω)	Measuring point : FMONV 	Oscilloscope	1.50 ± 0.05Vp-p Measure between the sync tip and 100IRE (top level). <small>The 1243 terminal on the measuring instrument.</small>	VR751

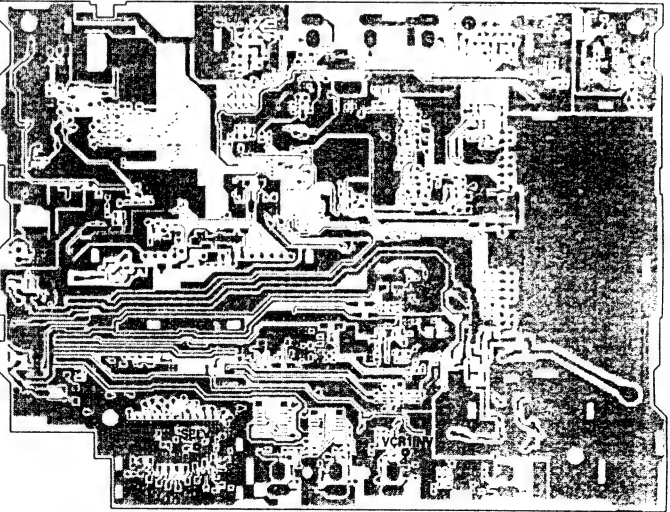
6.4 MOTHER PCB ADJUSTMENT

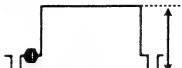


● Adjustment point
MOTHER PCB(SIDE A)

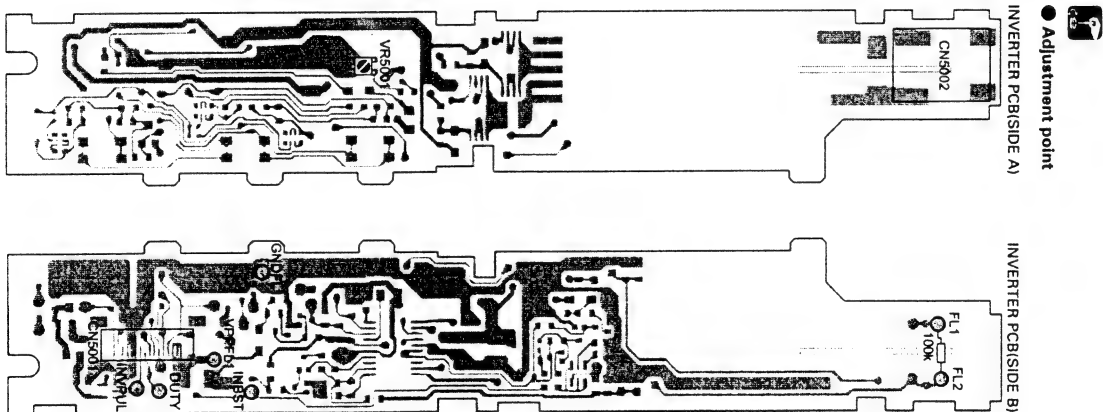


MOTHER PCB(SIDE B)

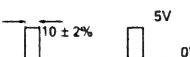
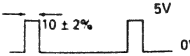


Step	Adjustment item	Mode	Input (input test pin, specs, other conditions)	Output (measuring point, waveform)	Measuring instruments	Specs	Adjusting point
1	Composite video level	VTR	Input test pin : VCR1INV Signal : 100IRE(white 100%) Level : 1.0Vp-p(via 75Ω)	Measuring point : SELV 	Oscilloscope	$1.00 \pm 0.05\text{Vp-p}$ Measure between the sync tip and 100IRE (top level). Measuring conditions: Select the 75Ω terminal on the measuring instrument.	VR1551

(1) The Video level (Vlevel) is out of spec.
When the Vlevel is more than 1.05Vp-p, the images become whitish.
When the Vlevel is less than 0.95Vp-p, the images become blackish.



6.5 INVERTER PCB ADJUSTMENT

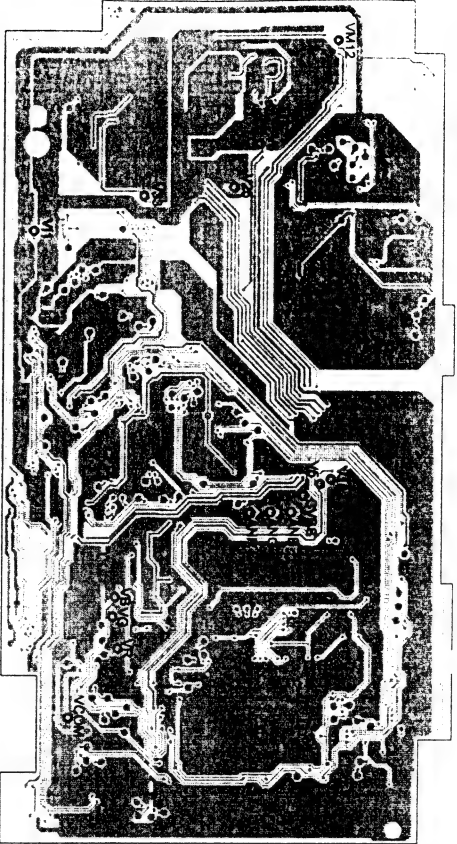
No	Adjustment item	Input signal	Measuring point	Adjusting point	Measuring method and specs.	Remarks
1	BACK LIGHT DRIVE FREQUENCY	Apply 14.4V \pm 0.2V to TP VPPFL1 TP GNDFL1, TP INVPUL, TP DUTY and TP INBST : GND	TP:FL1,FL2	VR 5001	48.0 \pm 0.1kHz	100k ohms is connected between TP FL1 and TP FL2. It acts as the monitor of the waveform after potential. Don't acts as the monitor of the TP FL2 directly. (there is a possibility that a measuring instrument may be destroyed, for high voltage.) Out of spec., when frequency change of following may become impossible.
2	FREQUENCY CHANGE CHECK	Apply wave of 98.0 \pm 1kHz to TP INVPUL 	TP:FL1,FL2		49.0 \pm 0.5kHz	It checks that the waveform after potential is set to 49 kHz
3	FREQUENCY CHANGE CHECK	Apply wave of 104.0 \pm 1kHz to TP INVPUL 	TP:FL1,FL2		52.0 \pm 0.5kHz	It checks that the waveform after potential is set to 52 kHz

6.6 MONITOR PCB ADJUSTMENT



● Adjustment point

MONITOR PCB(SIDE B)



Notes:

When the power supply for TC90A64AF-P (IC4001) is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
1	3.3V power supply verification	Apply 14.4V to TP VI1.	(TP V33)	—	$V33 = 3.3V \pm 0.3V$	
2	2.5V power supply verification	Apply 14.4V to TP VI1.	(TP V25)	—	$V25 = 2.5V \pm 0.2V$	
3	5V power supply verification	Apply 14.4V to TP VI1.	(TP V5)	—	$V5 = 5.0V \pm 0.3V$	
4	8V power supply verification	Apply 14.4V to TP VI1.	(TP V8)	—	$V8 = 8.0V \pm 0.6V$	
5	18.5V power supply verification	Apply 14.4V to TP VI1.	(TP V18)	—	$V18 = 18.5V \pm 0.8V$	
6	-12V power supply verification	Apply 14.4V to TP VI1.	(TP VM12)	—	$VM12 = -12.0V \pm 0.6V$	

Notes:

When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

2) In the following table, SA**h is a sub-address of TC90A64AF-P.

No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
7	Vcom amp output voltage waveform verification	Any input signal	TP VCOM	—	$4.50V \pm 0.20V$ 	
8	Input waveform verification (RGB)	Apply a white 100% signal to TP ANR,ANG, ANB.	TP ANR,ANG, ANB	—	$0.70V \pm 0.02V$ 	The signal generator should be used via 75 ohms. (specs in desiging : $75.0 \pm 0.2ohms$)
9	Input waveform verification (composite)	Apply a white 100% signal to TP CVBS.	TP CVBS	—	$1.50V \pm 0.04V$ 	The signal generator should be used via 75 ohms.
10	RGB amp output voltage waveform verification	Apply a black signal to TP ANR,ANG,ANB. (Video level:0%)	TP VG	—	$3.9V \pm 0.2V$ 	The input signal has no setup. (Apply a black signal to TP CVBS)
11	Gamma 0 Verification	Apply a 10-step signal to TP ANR,ANG,ANB.	TP VG	—	The first-step $A = 0.50V \pm 0.10V$ 	The input 10-step signal has no setup.
12	Gamma 2 verification	Apply a 10-step signal to TP ANR,ANG,ANB.	TP VG	—	The 10-step $A = 3.10V \pm 0.15V$ 	The input 10-step signal has no setup. If the measured value is out of specs, change the setting of SA24h D11 - 8 (y2 inflection point: GAMMA2 in the line adjustment 1 mode) (Register setting specs: 4 ± 1)

Notes:

1) When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

2) In the following table, SA**h is a sub-address of TC90A64AF-P.

No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
13	B SUB BRIGHT	Apply a 10-step signal to TP ANR,ANG, ANB.	TP VG and VB	Register setting of SA39h D11 - 8	Adjust the first step levels of the G waveform and the B waveform. 	Register setting specs : 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI B can be used as the adjusting point.
14	B SUB CONTRAST	Apply a 10-step signal to TP ANR,ANG, ANB.	TP VG and VB	Register setting of SA26h D7 - 1	Adjust the 10th step levels of the G waveform and the B waveform. 	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON B can be used as the adjusting point.
15	R SUB BRIGHT	Apply a 10-step signal to TP ANR,ANG, ANB.	TP VG and VR	Register setting of SA39h D15 - 12	Adjust the first step levels of the G wave form and the R waveform.(Measuring point is the same as that of No.13.)	Register setting specs: 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI R can be used as the adjusting point.
16	R SUB CONTRAST	Apply a 10-step signal to TP ANR,ANG, ANB.	TP VG and VR	Register setting of SA26h D15 - 9	Adjust the 10th step levels of the G waveform and the R waveform.(Measuring point is the same as that of No.14.)	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON R can be used as the adjusting point.
17	Horizon dot position	Any input signal	—	Register setting of SA2Ah D3 - 0	5(0101)	After being written in, the setting value of EEP-ROM is checked. 2 mode,DOT CLK can be used as the adjusting point.
18	Aging	Any input signal	—	—	Keep the unit in the operation mode for 30 minutes or longer.	Block light lighting. An animation is displayed.
19	Flicker	Input a signal for alternate white and black lines to TP ANR, TP ANG and TP ANB.	Screen	Register setting of SA22h D15 - 8	Adjust so that the flickers become minimum in all	If it input a signal for alternate white into TP CVBS, it is possible. (However, adjustment by RGB has priority.) The luminance level of the input signal: 50%. In the flicker adjustment mode, COM DC can be used as the adjusting point.

Flicker adjustment has been deviated The images flicker.

(2) Line adjustment 1 mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	63		LINE1
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	127		
Common reverse output center	[0-255]	COM DC	255		
Common reverse output amplitude	[0-63]	COM AMP	63		
Output clamp DC	[0-63]	RGB BIAS	63		
γ 0 inflection point	[0-15]	GAMMA0	15		
γ 3 inflection point	[0-15]	GAMMA3	15		
γ 2 inflection point	[0-15]	GAMMA2	15		
γ 1 inflection point	[0-31]	GAMMA1	31	CS	FF

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) BRIGHT and COM AMP data

The BRIGHT and COM AMP adjustments are made by using the same 2-screen IC register(SA22h B7-2: common reverse output amplitude).

Therefore, adjusting one of the data will change the other one.

(3) Line adjustment 2 mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	63		LINE2
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	127		
Output sub contrast R	[0 - 127]	SUB CON R	127		
Output sub contrast B	[0 - 127]	SUB CON B	127		
Sub brightness R after γ circuit	[0 - 15]	SUB BRI R	15		
Sub brightness B after γ circuit	[0 - 15]	SUB BRI B	15		
Clock phase adjustment	[0 - 15]	DOT CLK	15		
Sharpness	[0 - 3]	SHARPNESS	3		
				CS	FF

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) SUB BRI R and SUB BRI B data

The displayed value or EEPROM written data is different from the setting value for the 2-screen IC register (IC4001 : TC90A64AF-P).

(Before displayed on the screen, the setting value is converted via some software.)

Displayed value (adjusting value) (DEC)	E2PROM written value. (DEC)	2-screen IC register setting (BIN)	
15	15	0111	(MAX)
14	14	0110	
.	.	.	
9	9	0001	
8	8	0000	(TIP)
7	7	1111	
.	.	.	
1	1	1001	
0	0	1000	(MIN)

(4) Dimmer parameter setting mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Backlight output (MAX)	[0 - 255]	BL MAX	FF		DIMMER
Backlight output (MIN)	[0 - 255]	BL MIN	FF		
Dimmer threshold (high)	[0 - 255]	REF H	FF		
Dimmer threshold (low)	[0 - 255]	REF L	FF		
External light point (high)	[0 - 255]	LUM H	FF		
External light point (middle)	[0 - 255]	LUM M	FF		
External light point (low)	[0 - 255]	LUM L	FF		
Backlight point (high)	[0 - 255]	BL H	FF		
Backlight point (middle)	[0 - 255]	BL M	FF		
Backlight point (low)	[0 - 255]	BL L	FF	CS	FF

Note:

The dimmer point data is memorized in the EEPROM, but not treated as a CS item. It's because the settings are adjustable by the user.

● Dot Clock Adjustment Mode

[Operations]

- [Dot Clock adjustment mode] starting procedure
Reset start while pressing the [ENT] and [ANGLE+] Keys together.
- [Dot Clock adjustment mode] cancellation Monitor's microcomputer OFF.
The operation after this should use Navigation's remote controller.
- [||] button : Used to select a desired adjustment item in each mode.
- [← →] button : Used to adjust the selected item.

[EEPROM : S-93C46BR01-J8T1]

The setting values are written in the EEPROM and then the read-out data is displayed on the screen. WRITE and READ operations are processed by the block data of 16 bits.

[Display]

In the following figures, a large square are for OSD examples.

Dot Clock adjustment mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Clock phase adjustment	[0 - 15]	DOT CLK	15		
Clock phase adjustment (initial)	[0 - 15]	[FACTORY]	8		
Common reverse output center	[0-255]	COM DC	255		
Common reverse output center adjustment (initial)	[0-255]	[FACTORY]	140		

* CS(Check Sum)display is not performed.

● To operate the Monitor Assy only

Setting of the TP1(EPRTST), TP2(TESTAGE) and TP3(TOUCHTS) in single operation mode is as follows.

TP2	TP3	TP1	Contents
L	H	H	For aging (See p.221.)
L	-	L	EEPROM setting mode (See p.222.)
L	L	H	Touch panel test mode (See p.231.)

H : Not connect
L : Connect to the ground

Contents of single operation mode

[For aging]

MVIPW : ON
MFLPW : ON
DIMMER : 5V (FFH)
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

[EEPROM setting mode]

MVIPW : ON
MFLPW : ON
DIMMER : The calculated value from coordinates of EEPROM data
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

[Touch panel test mode]

MVIPW : ON
MFLPW : ON
DIMMER : The calculated value from coordinates of EEPROM data
BRIGHT : ± 0
CONTRAST : ± 0
WIDE MODE : Full size

6.7 TEST MODE

● NAVIGATION TEST MODE

1. How to start the test mode

1. When +Battery and ACC are ON, push RESET and EJECT buttons simultaneously.
2. Release RESET button only.
3. When "password entry screen" is displayed, release EJECT button.
4. Enter the password.
5. When the password has been entered, press [ENTER] key.
6. If the correct password has been entered, the test mode menu will be displayed.

* The password entry screen, as the one used in the previous model, is no longer displayed.

<< Password for the service >>

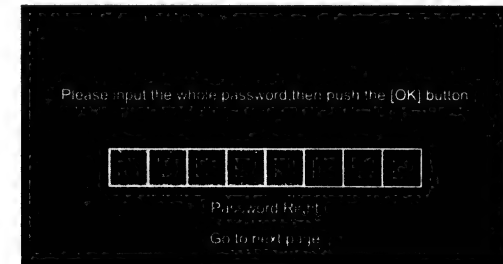
The password is [↑(up)] → [↑(up)] → [↓(down)] → [↓(down)] → [ENTER].

If 8 digits or more are entered and [ENTER] key is pressed, it will be treated as a password error.

• Password entry screen

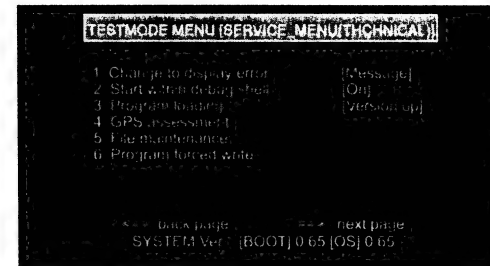
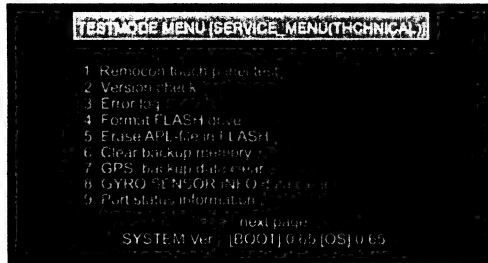


• Password OK : After 2 seconds or so, the screen will automatically move on to the menu screen.



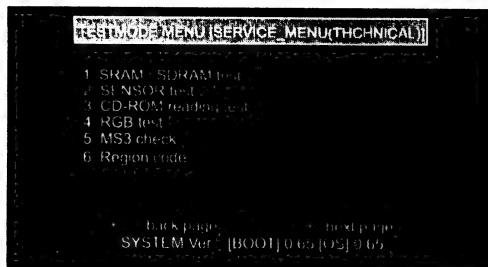
• Password NG : Nothing will be displayed, and reboot action will be taken.

2. Test mode menu



No.	Inspection item	Outline of inspection	Content if inspection
1	Remocon touch panel test	Remote controller touch panel inspection	Calibration setting and remote controller inspection are performed.
2	Version check	Version information check	Display of various version information. (system software, GPS, system microprocessor, microprocessor for mechanism control, microprocessor for timer). The screen will return to "menu" by BACK key.
3	ERROR log	Error history entry	History of system software errors stored in SRAM is displayed. Maximum 8 events from the error last occurred can be displayed. The screen will return to "menu" by BACK key.
4	Format FLASH drive	FLASH format	FLASH domain used by the system soft is initialized. When the job is done, the screen will return to "menu".
5	Erase APL-file in FLASH	Application file inside FLASH is clear	Application file inside FLASH is clear. *(Except voice data and SRAM backup variable) When the job is done, the screen will return to "menu".
6	Clear backup memory	Back up variables initialization	SRAM domain used by the system software is initialized. When the job is done, reboot action will be taken.
7	GPS backup data clear	GPS back up data clear	SRAM domain used by GPS is initialized. When the job is done, the screen will return to "menu".
8	GYRO SENSOR INFO data clear	Learned data inside gyro sensor is clear	Learned data inside gyro sensor is cleared. When the job is done, the screen will return to "menu".
9	Port status information	Port status display	Port status is displayed. (reverse, parking, pulse, SDRAM capacity.)

No.	Inspection item	Outline of inspection	Content if inspection
1	Change to display error	Switching of error information display	Display setting for error cases. (for debugging) Message/Information (error information) selectable.
2	Start within debug shell	Switching of debug shell start	Setting for debug shell start. (for debugging) Off (no initial start)/On (initial start) selectable.
3	Program loading	Switching of program loading	Recognition method for boot up program write is changed.
			Disc version (default)
			System program
			System data
			GPS program
			Application program
			Version upgrade (for debug)
			System program
			System data
			GPS program
			Application program
4	GPS assessment	GPS assessment system start	GPS assessment system can be used. The system will return to "menu" by BACK key.
5	File maintenance	File maintenance function	File maintenance operations are made. Formatting of SRAM drive and PC card (ATA Flash Card) are made. SRAM data is retrieved and copied to PC card. Data retrieved from SRAM is copied to SRAM from PC card.
6	Program forced write	Program forced write	Rewriting of SYS (system), GPS (GPS) and APL (application) software are done by force. (Joystick is used) The system will return to "menu" by BACK key.



No.	Inspection item	Outline of inspection	Content if inspection
1	SRAM/SDRAM test	Memory inspection	<p>SRAM : Device inspection and bus inspection are performed against all SRAM domains. Data will be protected. (applicable to both 32M and 64M)</p> <p>SDRAM : Device inspection and bus inspection are performed against all SDRAM domains. Data will be protected for both BIOS domain and USER domain. The function for SDRAM all domain inspection will activate by the built-in instruction RAM.</p>
2	SENSOR test	Sensor inspection	G sensor, gyro, power supply voltage and installation condition are displayed. The system will return to "menu" by BACK key.
3	CD-ROM reading test	CD-ROM read test	Inspection for reading by CD-ROM drive is performed.
4	RGB test	Image RGB inspection	<p>RGB inspection (Upper half, 8 colors. Black/blue/red/pink/green/light blue/yellow/white display. Lower half, 3 colors. Red/green/blue.)</p> <p>→ red (FULL)→ green (FULL)→ blue (FULL)→</p> <p>Switching can be made by [←] and [→] keys. The system will return to "menu" by BACK key.</p>
5	MS3 check	MS3 check [V+R]	MS3 mechanism test mode inspection.
6	Region code	Region code display	Region code display.

3. How to select test mode menu

Select a desired menu by [↑] and [↓] keys, and execute by pressing [ENTER] key. Pages can be changed by [←] and [→] keys.

4. Version information

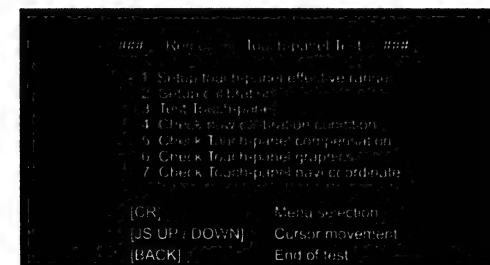
Version No. for BOOT section = X.XX System software does not exist in SDRAM.
Version No. for BOOT section = X.XX Version No. for SDRAM = Y.YY

● Remocon touch panel test

- How to operate the touch panel test mode is described below.
- First, "1. Setup touch-panel effective range" in the touch panel test menu is made.
- Next, "3. Test Touch-panel", and if the result is OK, then EXIT the screen.
- If the result is NG, conduct "2. Setup calibration", and conduct "3. Test Touch-panel" once again. If the result is OK, then EXIT the screen.
- Furthermore, details of the misalignment can be verified by the "5. Check Touch-panel compensation".

*) When inspecting the touch panel, use something thin with a round tip such as the touch pen. Furthermore, do not apply excessive force to the touch panel.

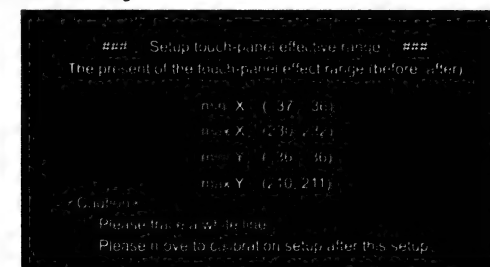
Main Menu



"*" mark shown on the left side of menu item "1" indicates that the setting has been completed. The setting items where "*" is actually indicated will be "1. Setup ~" and "2. Setup ~" only.

[CR] Enter
[UP/DOWN] Selection of the inspection item
[BACK] Return (to the test mode menu)

1. Setup touch-panel effective range



Adjustment steps

- 1) Trace the edge of the screen along the monitor resin frame with a round-headed thing to obtain the coordinates.
- 2) Press the [BACK] key.

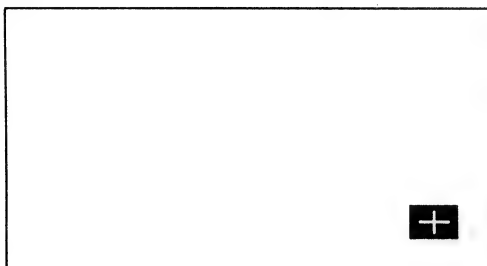
Explanation of the displays

min_x(A,B) : X coordinate of the touch panel • minimum value received
max_x(A,B) : X coordinate of the touch panel • maximum value received
min_y(A,B) : Y coordinate of the touch panel • minimum value received
max_y(A,B) : Y coordinate of the touch panel • maximum value received

A = A coordinate which is already stored in the SRAM (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).
 B = An updated coordinate which is planned to be set in the SRAM this time (If there is no previous data in the SRAM, "min=90, max=180" will be displayed).
 [BACK]: The preset effective range is registered, and the screen will return to the remote controller inspection menu. The data of the effective range will be recorded in the SRAM.

In case the compensation value is not preset in the SRAM, the following initial (default) value will be entered automatically at the time of navigation system boot up.
 min_x = 42 (right edge limit value)
 max_x = 246 (left edge limit value)
 min_y = 49 (bottom edge limit value)
 max_y = 238 (top edge limit value)

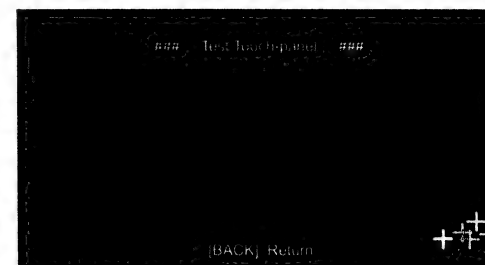
2. Setup calibration



Explanation

- A (+) cursor is displayed at 16 locations on the screen for calibration. Finally, verification of a single point is made. The cursor is always displayed at one location only, and moves on to the next location as the current one is correctly pressed.
- When pressing on the (+) cursor, make sure to press at the center of "+".
- The result of calibration will be recorded in the SRAM.
- If effective operation is not made for 30 seconds, the system will recognize as "erroneous end" and stops the calibration.

3. Test Touch-panel

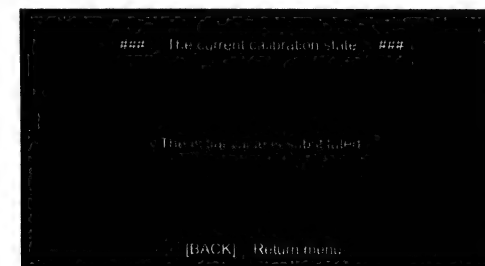


Explanation on touch panel misalignment verification test.

- The test is intended to verify if the touched point on the touch panel is correctly recognized or not. (+) cursor will be displayed at 16 locations on the screen. The cursor will be displayed in "white color" only one at a time. Each time the cursor is touched correctly, the next point will be displayed. On the other hand, if it is recognized that the point touched was ± 4 dots vertically and ± 5 dots horizontally away from the center of the displayed (+) cursor, the erroneously recognized coordinate (+) will be drawn in "red color".
- When touching the (+) cursor, touch the center of the + mark correctly.
- If [BACK] is touched, the test will be finished, and the screen will return to the menu screen of the touch panel test mode.

If this test turns out to be NG, it will be necessary to redo "1. Setup touch-panel effective range" and "2. Setup calibration". Repeat the above steps once again.

4. Check now calibration condition



Explanation on the setting status of the calibration compensation value.

The current calibration compensation status is displayed.

The following data will be displayed.

"With no calibration value" (in white characters)

In case the compensation value does not exist in the SRAM.

"The effective range value is stored"

In case the compensation value for the upper limit and the lower limit are preset in the SRAM.

"The calibration compensation value is stored"

In case the calibration compensation values for the 16 points are preset in the SRAM.

"The effective range & calibration value is stored."

In case the upper limit and the lower limit values and the 16 points calibration values are preset in the SRAM.

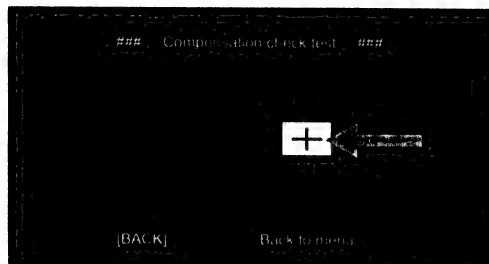
"The initial value is substituted."

In case the value stored as the initial (default) value is preset in the SRAM.

"Error Condition"

In case the SRAM value is demolished or some unexpected situation is happening.

5. Check Touch-panel compensation

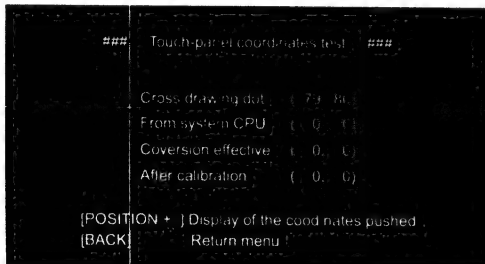


[BACK] : The system will return to the remote controller inspection menu.

Explanation of the inspection details

- Regarding this inspection, the title only will be displayed at the initialized stage.
- As shown by the arrow, press any desired location on the monitor.
- A coordinate after the calibration correction will be displayed by the [+] mark against the coordinate recognized as pressed.

6. Check Touch-panel graphics



[NAVI] + pressing the touch panel : The coordinate of the touch panel at that time will be displayed.

[↑] : Horizontal line will move upward.

[↓] : Horizontal line will move downward.

[←] : Vertical line will move to the left.

[→] : Vertical line will move to the right.

[BACK] : The system will return to the remote controller inspection menu.

Explanation of the displayed coordinate (from top to bottom)

- (79, 80) : Coordinate of the crossing point by the vertical and the horizontal lines (X direction, Y direction). (0-500, 0-240)
- (0, 0) : AD data value (X direction, Y direction) representing the coordinate of the pressed location received from the system control microprocessor.
- (0, 0) : Coordinate (X direction, Y direction) obtained by normalizing the AD data value of the pressed location within the effective range.
- (0, 0) : Coordinate (X direction, Y direction) obtained by adding the correction based on calibration to the normalized coordinate.

7. Check Touch-panel navi coordinate



[BACK] + pressing the touch panel will make the system return to the remote controller inspection menu.

Explanation of the displayed content.

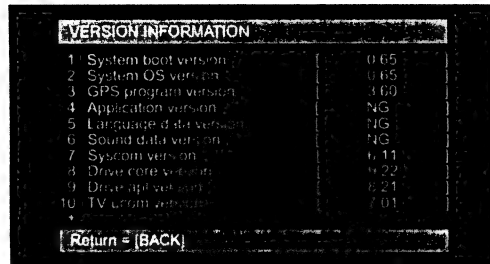
panel x_before : X coordinate normalized (expanded) within the effective range.

panel y_before : Y coordinate normalized (expanded) within the effective range.

panel x_after : X coordinate obtained by adding the correction based on calibration.

panel y_after : Y coordinate obtained by adding the correction based on calibration.

Version check



Item	Content	Information	Filename
1 System boot version	Version information of the system software BOOT section (FLASH) is displayed	*** -> Version information of the system software BOOT section	EW040BOT GBR UC040BOT GBR
2 System OS version	Version information of the system software OS section (FLASH) is displayed	*** -> Version information of the system software OS section NG -> System program doesn't exist	EW040SYS xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK) UC040DAT yyy (yyy: USA, FRA, ESP)
3 GPS program version	Version information of the GPS program (DRAGON) is displayed	*** -> Version information of the GPS program NG -> GPS program doesn't exist	EW040GPS PRG UC040GPS PRG
4 Application version	Version information of the application program (FLASH) is displayed	*** -> Version information of the application program NG -> Application program doesn't exist	EU040APL PRG
5 Language data version	Version information of the language data (FLASH) is displayed	*** -> Version information of the language data NG -> Language data doesn't exist	EW040DAT xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK) UC040DAT yyy (yyy: USA, FRA, ESP)
6 Sound data version	Version information of the sound data (FLASH) is displayed	*** -> Version information of the sound data NG -> Sound data doesn't exist	EW040SDF xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SDF yyy (yyy: USA, FRA, ESP)
7 Syscom version	Version information of the system microprocessor is displayed	*** -> Version information of the system microprocessor NG -> Communication with the system microprocessor has not been established	
8 Drive core version	Core version information of the microprocessor for mechanism control is displayed (V+H)	*** -> Core version information of the microprocessor for mechanism control NG -> Communication with the microprocessor for mechanism control has not been established NON -> ROM only mechanism	
9 Drive api version	Application version information of the microprocessor for mechanism control is displayed (V+R)	*** -> Application version information of the microprocessor for mechanism control NG -> Communication with the microprocessor for mechanism control has not been established NON -> ROM only mechanism	
10 TV ucum version	Version information of the microprocessor for TV is displayed	*** -> Version information of the microprocessor for TV NG -> Communication with the microprocessor for TV has not been established	
11 Monitor ucum version	Version information of the microprocessor for Monitor is displayed	*** -> Version information of the microprocessor for Monitor NG -> Communication with the microprocessor for Monitor has not been established	
12 System language	System language file in the system program (FLASH) is displayed	*** -> System language program file name NG -> System language data doesn't exist	EW040SYS xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SYS yyy (yyy: USA, FRA, ESP)
13 Application language	Application language data file (FLASH) is displayed	*** -> Application language data file name NG -> Application language data doesn't exist	EW040DAT xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040DAT yyy (yyy: USA, FRA, ESP)
14 Sound data language	Language sound data file (FLASH) is displayed	*** -> Language sound data file name NG -> Language sound data doesn't exist	EW040SDF xxx (xxx: GBR, DEU, FRA, ITA, NLD, ESP, SWE, DNK, BEL) UC040SDF yyy (yyy: USA, FRA, ESP)

Error Information

1. Error Information

Descriptions of error information, for errors arising from system software problems, will be provided in this section.

Up to eight sets of information, related to the system software's errors, will be stored in the SRAM.

By executing hi_sysdwn() the line number (on which the error occurred), the error code and detailed information of the error, will be stored in the error log.

Hi_sysdwn() will be executed in the following two circumstances:

- hi_sysdwn() will be intentionally stored if fatal errors occur with each BIOS.
- If multiple exceptions, fatal exceptions, illegal command codes and trap command errors occur.

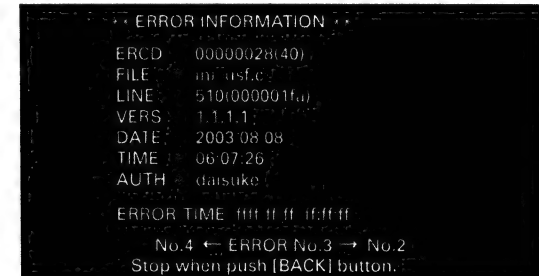
2. Error Log's Entry Function

Up to twenty-four sets of information, related to errors starting with the latest error, will be displayed by the error log entry function.

There are two types of error log displays.

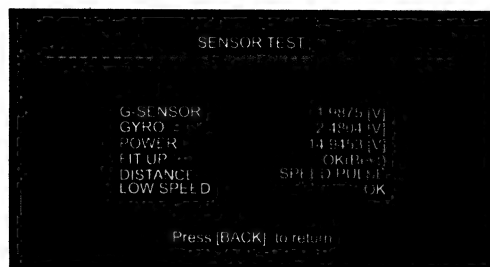
The display will vary when the argument provided to hi_sysdwn(), depending on whether detailed information (such as program name, version number, creation date, creation time and creator name) exists or not.

1. When detailed information exists:



ERCD	Error code.
FILE	Error occurring program name.
LINE	Error occurring program line number.
VERS	Error occurring program version number.
DATE	Error occurring program creation date.
TIME	Error occurring program creation time.
AUTH	Error occurring program creator name.
ERROR-TIME	Error occurrence date and time.

● SENSOR test



G-SENSOR	Display of G sensor voltage	
GYRO	Display of gyro voltage	
POWER	Display of power supply voltage	
FIT UP	Display of installation status	
	Display	Status
	• NG	Installation position is NG.
	• OK	Installation position is OK. (3rd best)
	• OK (Better)	Installation position is OK. (2nd best)
	• OK (Best)	Installation position is OK. (Best)
DISTANCE	Display of distance calculation status.	
	Display	Status
	• INITIALIZE	Sensor initial learning is under way.
	• GPS	GPS distance. (Model without G sensor. No pulse connection.)
	• G-SENSOR	G sensor distance. (simple hybrid.)
	• ND-PG1	ND-PG1 distance.
	• SPEED PULSE	Vehicle speed pulse distance.
LOW SPEED	Display of minimum output speed of a low speed NG vehicle. (Depends on DISTANCE status.)	
	DISTANCE status	SPEED PULSE status Display
		Low vehicle speed pulse learning is under way. CHECK
		Low vehicle speed pulse is OK. OK
		Low vehicle speed is NG. NG xx[km/h]
	Others	-----

● DVD Test Modes

CAUTIONS

Protection is not operational against a mechanical runaway conditions during servo testing. Critical damage can result if the system is allowed to continue in a mechanical runaway state. If abnormal noise is heard during the test, turn the power OFF immediately.

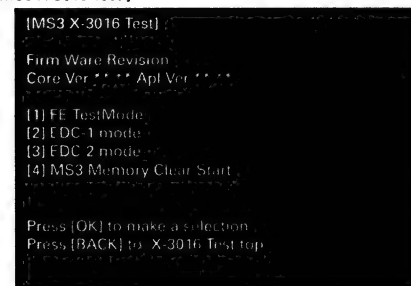
Keys used for the DVD test mode

[OK] : Selection decided.

[BACK] : Go back.

Directional keys : [↑ ↓ ← →] keys

[MS3 X-3016 Test]



Firm Ware Revision : Version of the drive used.

(1) Start the FE test mode.

(2) EDC1 mode (available for DVDs only).

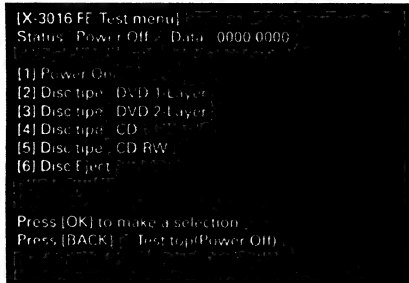
(3) EDC2 mode (available for DVDs only).

(4) Executes the MS3 memory cleaning operation.

[OK] Executes.

[BACK] Returns to the test mode menu.

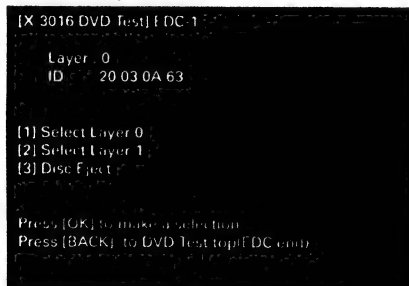
[X-3016 FE Test menu]



Status : "Power Off (during normal conditions)."

- [1] Power On (proceed to servo test 1-0).
- [2] Disc type : DVD single-layer.
- [3] Disc type : DVD double-layer.
- [4] Disc type : CD.
- [5] Disc type : CD-RW.
- [6] Ejects the Disc.
- [OK] Executes.
- [BACK] Returns to the initial screen display for the test.

[X-3016 DVD Test]



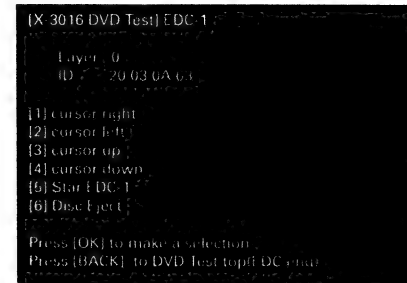
EDC-1 : Performs consecutive EDC tests.

EDC-2 : Performs EDC tests for each block.

ID : Performs ID of the test.

- [1] Select layer 0.
- [2] Select layer 1.
- [3] Ejects the Disc.
- [OK] Executes.
- [BACK] Returns to the test mode menu.

[X-3016 DVD Test]



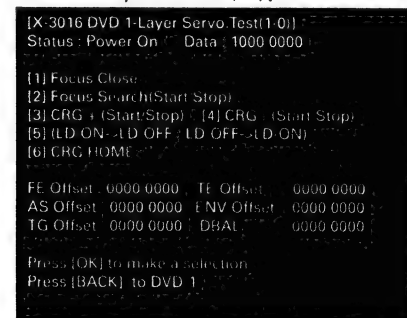
EDC-1 : Performs consecutive EDC tests.

EDC-2 : Performs EDC tests for each block.

ID : Performs ID of the test.

- [1] Moves the cursor to the right by one increment.
- [2] Moves the cursor to the left by one increment.
- [3] Moves the cursor up by one increment.
- [4] Moves the cursor down by one increment.
- [5] Starts the EDC test.
- [6] Ejects the Disc.
- [OK] Executes.
- [BACK] Returns to the test mode menu.

[X-3016 DVD 1-Layer Servo. Test(1-0)]



Test items are basically the same for both DVDs and CDs.

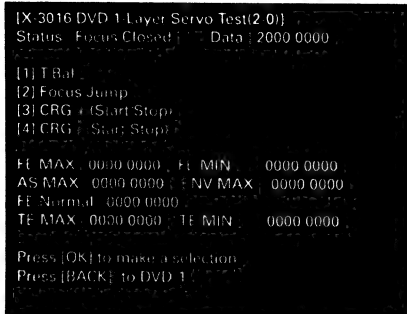
Status : "Power On (during normal conditions)."

- [1] Closes in on the focus (proceed to servo test 2-0).
- [2] Performs a focus search operation (S-curve measurement). Focus operation will then be stopped.
- [3] Moves the carriage (external). The carriage transition operation will then be stopped.
- [4] Moves the carriage (internal). The carriage transition operation will then be stopped.
- [5] Performs LD-ON/OFF operation.
- [6] Returns the carriage to the home position.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

* Focus closing and searching will not operate unless the LD-ON setting is made to less than 9 seconds.

[X-3016 DVD 1-Layer Servo. Test(2-0)]



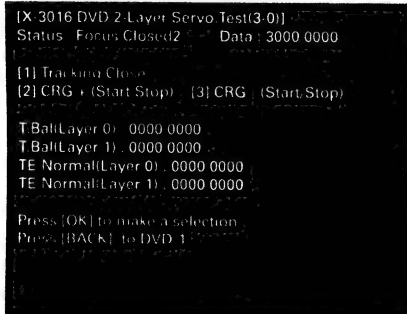
Test items are basically the same for both DVDs and CDs.

Status : "Focus Close (during normal conditions)."

- (1) Adjusts tracking balance (proceeds to servo test 3-0).
 - (2) Performs a focus jump operation.
 - (3) Moves the carriage (external). The carriage transition operation will then be stopped.
 - (4) Moves the carriage (internal). The carriage transition operation will then be stopped.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

[X-3016 DVD 2-Layer Servo. Test(3-0)]



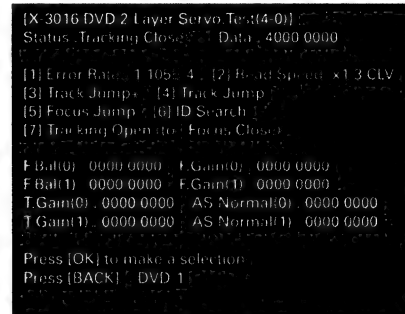
Test items are basically the same for both DVDs and CDs.

Status : "Focus Close 2 (during normal conditions)."

- (1) Performs tracking close operation (proceeds to servo test 4-0).
 - (3) Moves the carriage (external). The carriage transition operation will then be stopped.
 - (4) Moves the carriage (internal). The carriage transition operation will then be stopped.
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

[X-3016 DVD 2-Layer Servo. Test(4-0)]



Test items are basically the same for both DVDs and CDs.

Status : "Tracking Close (during normal conditions)."

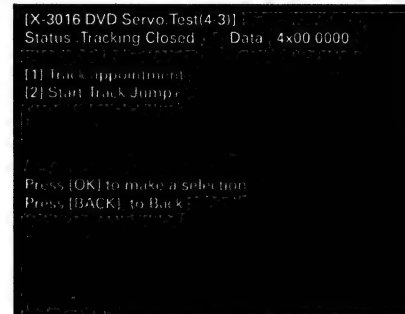
- (1) [OK] triggers measurement of the error rates (other operations can not be performed for approximately 10 seconds).
 - (2) [OK] triggers switching of the reproduction speed.
 - (3) Performs track jumping by a designated number of tracks (external).
 - (4) Performs track jumping by a designated number of tracks (internal).
 - (5) Performs a focus jump operation (for DVDs only).
 - (6) Designates an ID (for DVDs only).
 - (7) Performs a tracking open operation (for the focus close status : will proceed to servo test 2-0).
- [BACK] Returns to the DVD test menu screen display.

* This operation will not be performed until the coefficient figures have been received.

Reproduction speeds

L0-layer	DVD x 1.3CLV, CD x 2	4000 0000
L0-layer	DVD x 1CLV	4200 0000
L1-layer	DVD x 1.3CLV	4100 0000
L1-layer	DVD x 1CLV	4300 0000

[X-3016 DVD Servo. Test(4-3)]

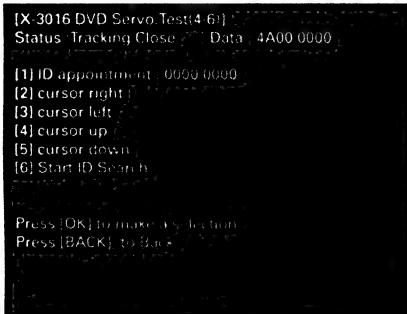


Test items are basically the same for both DVDs and CDs.

Status : "Tracking Close (during normal conditions)."

- (1) Performs a track number designation (MS3 cyclically switches the available patterns).
- (2) Starts the tracking jump operation (will proceed to servo test 4-0).

[X-3016 DVD Servo Test(4-6)]



Available for DVDs only.

Status : "Tracking Close (during normal conditions)."

- (1) Displays designated ID.
- (2) Moves the cursor to the right by one increment.
- (3) Moves the cursor to the left by one increment.
- (4) Moves the cursor up by one increment.
- (5) Moves the cursor down by one increment.
- (6) Starts the ID search operation (return to servo test 4-0).

Display data of adjustment value

FE Offset	FE offset coefficient	0000 0000[h] - FFFF FFFF[h]
TE Offset	TE offset coefficient	0000 0000[h] - FFFF FFFF[h]
AS Offset	AS offset coefficient	0000 0000[h] - FFFF FFFF[h]
ENV Offset	ENV offset coefficient	0000 0000[h] - FFFF FFFF[h]
TG Offset	TG offset coefficient	0000 0000[h] - FFFF FFFF[h]
DBAL	DBAL offset coefficient	0000 0000[h] - FFFF FFFF[h]
FE MAX	FE MAX level	0000 0000[h] - FFFF FFFF[h]
FE MIN	FE MIN level	0000 0000[h] - FFFF FFFF[h]
AS MAX	AS MAX level	0000 0000[h] - FFFF FFFF[h]
ENV MAX	ENV MAX level	0000 0000[h] - FFFF FFFF[h]
FE Normal	FE normalize coefficient	0000 0000[h] - FFFF FFFF[h]
S.Gain	Spindle gain coefficient	0000 0000[h] - FFFF FFFF[h]
T.Bal (layer-0)	TBAL coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
T.Bal (layer-1)	TBAL coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
G.Bal (layer-0)	GBAL coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
G.Bal (layer-1)	GBAL coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
TE Normal (layer-0)	TE normalize coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
TE Normal (layer-1)	TE normalize coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
FBal (layer-0)	FBAL coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
FBal (layer-1)	FBAL coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
F.Gain (layer-0)	Focus gain coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
F.Gain (layer-1)	Focus gain coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
T.Gain (layer-0)	Tracking gain coefficient (layer-0)	0000 0000[h] - FFFF FFFF[h]
T.Gain (layer-1)	Tracking gain coefficient (layer-1)	0000 0000[h] - FFFF FFFF[h]
AS Normal (layer-0)	AS normalize adjustment value (layer-0)	0000 0000[h] - FFFF FFFF[h]
AS Normal (layer-1)	AS normalize adjustment value (layer-1)	0000 0000[h] - FFFF FFFF[h]

6.8 USING THE TEST DISC

TEST DISC Part No. : GGV1137

REMOTE CONTROLLER Part No.

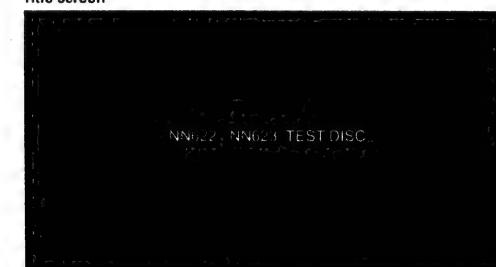
Part No.	Description
CXB7427	Co-packed remote controller with AVIC-8DVD/EW
CXB7426	Co-packed remote controller with AVIC-9DVD/EW, UC
CXB9118	Co-packed remote controller with AVIC-8DVD-2/EW, -9DVD-2/EW, -90DVD/UC
CD-R11	Optional remote controller

1. Start/End

1-1. Start

When the test disc is inserted, the title "NN622/NN623 TEST DISC" will be displayed. If [RETURN] key is pressed while the title is being displayed, the menu screen will be displayed. If no key is pressed, the first screen of the inspection for line will be displayed.

Title screen



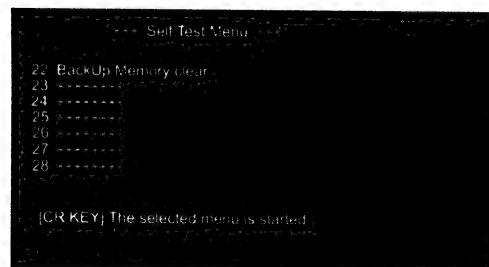
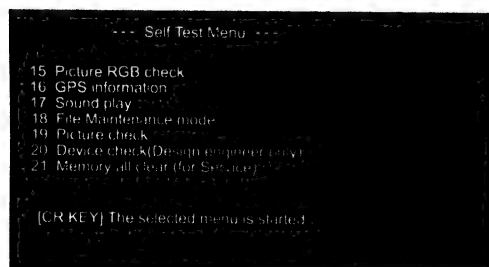
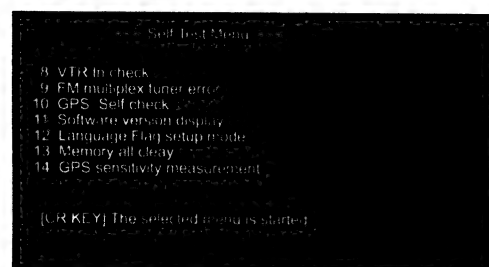
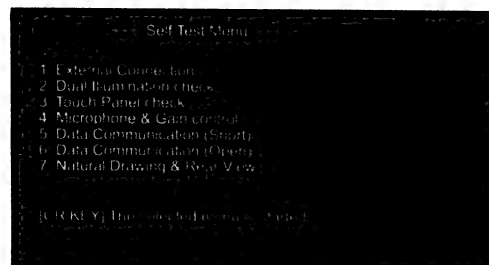
1-2. End

No action is taken.

2. Key operation

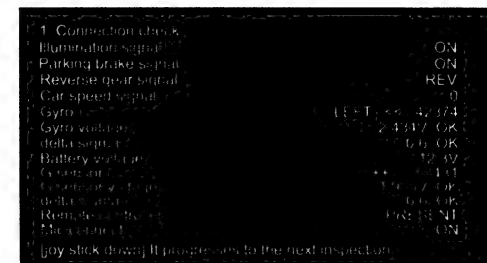
- In the case of inspection screen for line
 - The inspection screen and the menu screen can be switched alternately using the [CR] key on the remote controller.
 - The screen will go back to the previous screen by the [↑] key on the remote controller.
 - The screen will move forward to the next screen by the [↓] key on the remote controller. (Unless the inspection is finished, the screen will not move forward. The screen will not move forward, too, if there is an NG item.)
- * Refer to the explanation of each screen for the details.
- In the case of service menu screen
 - Select an inspection item by the [↑] and [↓] keys on the remote controller, and inspection screen will appear when the [CR] key is pressed.
 - When the [RETURN] key on the remote controller is pressed, the screen will go back to the menu screen.
- * Refer to the explanation of each screen for the details.

Menu screens



3. Inspection screen

1. Connection check



- The status of the item indicated in the above figure will be updated every second.
- Set ANTON port to H when starting the inspection and set to L when ending.
- When the gyro is in operation, a BEEP sound will be made when the G sensor is activated.
Right: 500Hz, Left: 700Hz, Up: 800Hz, Down: 600Hz
- Conditions for moving on to the next inspection
Illumination status is changing between ON and OFF.
Parking brake status is changing between ON and OFF.
Reverse status is changing between NOR and REV.
Pulse is changing to a value other than 0/0.
Mic connect status is changing between ON and OFF.
All keys on the main body as listed below have been pressed at least once.

Standard value for other items

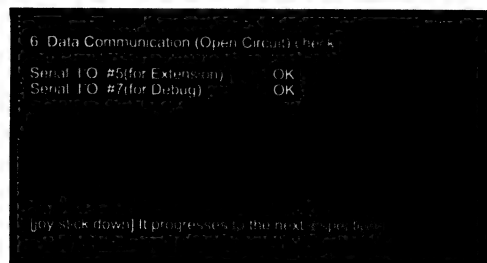
- GYRO voltage
OK: 2.5 ± 0.15
USABLE: 2.5 ± 0.30
- GYRO variation
OK: Less than 30
USABLE: 2.5 ± 0.30
- G sensor voltage
OK: 2.5 ± 0.15
USABLE: 2.5 ± 0.30
- G sensor variation
OK: Less than 60

- Only when all the conditions are met, you can move on to the next inspection by the [4] key on the remote controller. It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

<Supplemental explanation regarding error display>

Displayed message	Details of the error
Structural data error	An error when data cannot be received from A/D converter. Defective device of the A/D converter seems to be the cause. It will also happen in case the vehicle speed pulse cannot be measured. (rare)
No connection to DRAGON	An error when communication with DRAGON cannot be established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.
Unknown error	Error due to unknown reason.

6. Data Communication (Open Circuit) check (Not for service)



- SIO connection open is checked.
- Check is performed on 5CH and 7CH.
- Do not connect anything to the terminal. OK will be indicated under "open" condition.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

7. Natural Drawing & Rear View



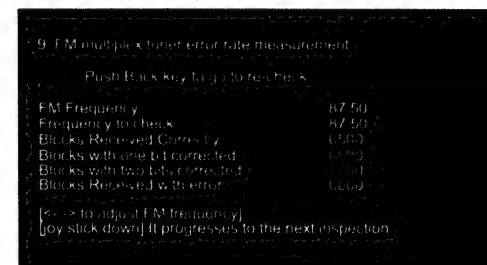
- Natural image consisting of 256 colors will be drawn on the BG screen.
- ADPCM 1kHz sine wave at the sampling rate of 19kHz will be output for 30 seconds.
- Rear view image will be displayed on the right hand side of the screen.
- GUIDEON terminal will be set to H when entering the screen, and set to L when exiting the screen.
- Volume level can be changed by the [←] and [→] keys on the remote controller. (0 to 9)
- [JPEG file name: ZHITO1.JPEG]
- [Voice file name: A19K01KS.WAV]
- You can move on to the next inspection by the [↓] key on the remote controller.

8. VTR check



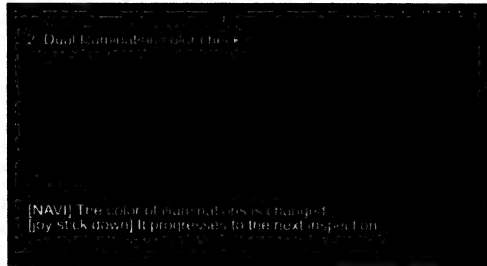
- External input image (VTR input image) is displayed and voice is outputted.
- You can move on to the next inspection by the [↓] key on the remote controller.

9. FM multiplex tuner error rate measurement



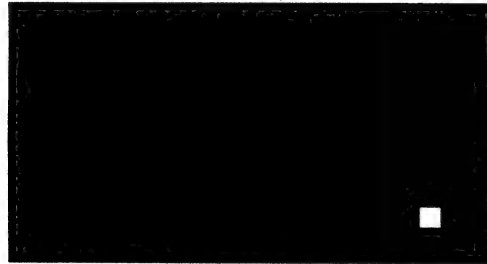
- FM multiplexing error is measured.
- In the case of UC model, this inspection is not performed and the system will move on to the next inspection.
- Default frequency is 87.5MHz.
- When entering this mode for the first time, the result of measurement at the time of test disc boot up will be displayed.
- After the measurement is taken, the frequency can be changed by the [←] and [→] keys.
- 500 blocks will be measured, and if there are 450 or more blocks without error, then it will be determined as OK.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

2. Dual Illumination color check



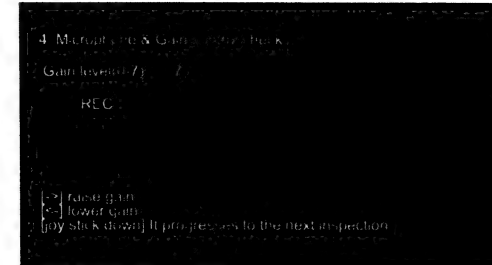
- Color switching for dual illumination can be made.
- In the case of UC model, this inspection will not be performed, and the system will move on to the next inspection.
- Color is changed to GREEN/LED by the [NAVI] key on the remote controller.
- Move on to the next inspection by the [↓] key on the remote controller.

3. Touch Panel check



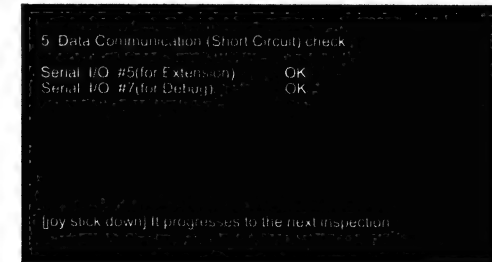
- Touch panel inspection must be performed at 16 locations.
- If the coordinate obtained by pressing the white spot is within the effective range, it will be determined as OK, and the next white spot will be displayed.
- If the coordinate obtained is outside of the effective range, it will be determined as NG.
- If all 16 locations turned out to be OK, then this test is considered to be OK.
- If coordinate cannot be obtained in approximately 5 seconds after the white spot is displayed, the inspection is determined as NG.
- Only if the inspection is OK, the inspection will move on to the next step by the [↓] key on the remote controller.

4. Microphone & Gain control check



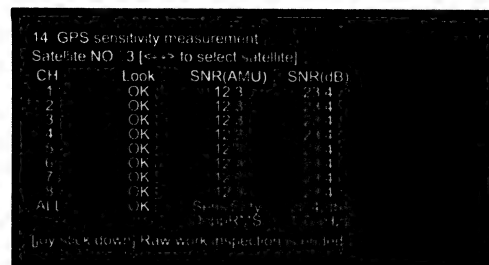
- The voice channel is inspected by recording the voice from MIC input (Lch) on a memory, playing back the recorded data and outputting from the SP.
- Recording of MIC input voice and playback of the recorded data is done at every second. ("1 second recording → 1 second playback" will be repeated during inspection.) "REC" and "PLAY" will be displayed on the screen during recording and play back, respectively.
- Voice channel
MIC voice input → ADC Lch input → ASIC voice block → Data storage (recorded on the memory)
Play back of recorded voice data → ASIC voice block → DAC Lch output → SP output
- Operation (remote controller)
[←]: MIC input gain (PROGGAIN0-2) is lowered.
[→]: MIC input gain (PROGGAIN0-2) is increased.
[NAVI]: Muting of ONSEIMUTE signal is switched between ON and OFF by a toggle switch.
[↓]: Move on to the next inspection.

5. Data Communication (Short Circuit) check (Not for service)



- SIO connection short is checked.
- Loop back check is performed on 5CH and 7CH.
- Wait screen is displayed until the checking is completed.
- When [RETURN] key on the remote controller is pressed while the inspection result is being displayed on the screen, inspection will be performed once again.
- Only in the case of OK, you can move on to the next inspection by the [↓] key on the remote controller.

14. GPS sensitivity measurement

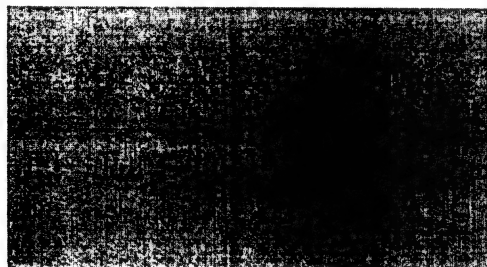


- GPS can be changed by the [←] and [→] keys on the remote controller.
- Sensitivity of the selected GPS is displayed by the [RETURN] key on the remote controller.
- Production engineering inspection is ended and service menu is displayed by the [↓] key on the remote controller.

<Supplemental explanation regarding error display>

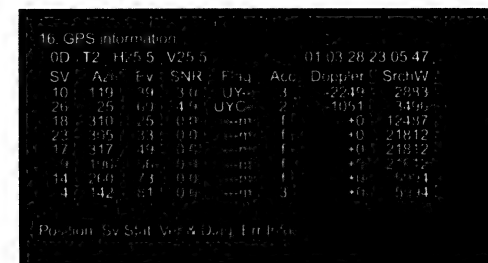
Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.

15. Picture RGB check



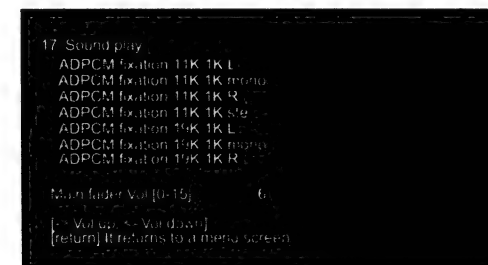
- RGB bridge is inspected.
- The screen can be switched by the [←] and [→] keys on the remote controller.
- RGB is drawn in the pattern of R 100% → R 50% → G 100% → G 50% → B 100% → B 50%.
- Total of 6 screens will be displayed.

16. GPS information



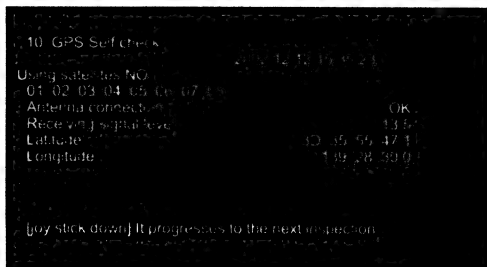
- "Position information" will be displayed when the cursor is at the "Position" position and the [CR] key is pressed on the remote controller.
- "Status information" will be displayed when the cursor is at the "Sv Stat" position and the [CR] key is pressed on the remote controller.
- "Diagnosis information" will be displayed when the cursor is at the "Ver&Diag" position and the [CR] key is pressed on the remote controller.
- "Error information" will be displayed when the cursor is at the "Err Info" position and the [CR] key is pressed on the remote controller.
- When an inspection is performed, "status information" (the screen shown above) will be displayed first.

17. Sound play



- Voice file (WAVE format) will be played back.
- The voice selected by the [CR] key on the remote controller will be played back.
- Volume level can be changed by the [←] and [→] keys on the remote controller.

10. GPS Self check

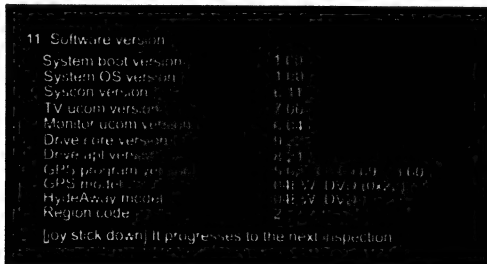


- GPS receiving status will be displayed.
 - Conditions to move on to the next inspection.
 - Antenna connection is OK.
 - Data is received from one or more satellite.
 - Time is being displayed.
 - When all the conditions are met, the background color will change to blue.
 - Only when all the conditions are met, you can move on to the next inspection by the [↓] key on the remote controller.
- It should be noted, however, that you will not be able to move on to the next inspection if there is an error (background color is red) even if the conditions are met.

<Supplemental explanation regarding error display>

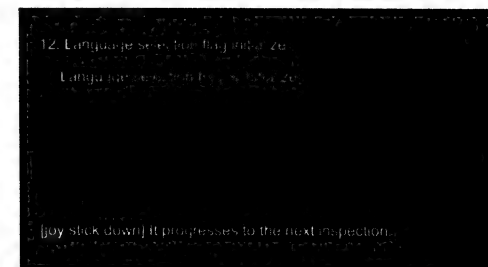
Displayed message	Details of the error
No connection to DRAGON	This is an error when communication with DRAGON is not established. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.
Command error	Time out error for response to BIOS call. Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.
Invalid data	This is an error when request is made while the data for response is not prepared (not obtained from DRAGON). Communication error due to a hardware problem could be the cause. It is highly possible that the hardware on the DRAGON side is defective.

11. Software version



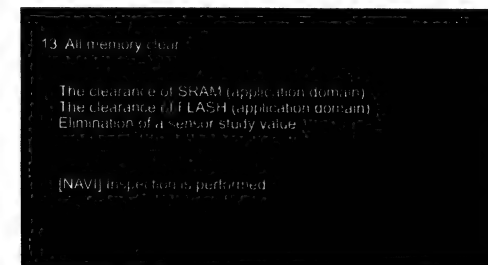
- It indicates the version information of the software.
- As for the "GPS model", it will be considered OK if either "04EW DVD" or "04UC DVD" is displayed.
- As for the "Hide away model", it will be considered OK if either "04EW DVD" or "04UC DVD" is displayed.
- As for the region code, it will be considered OK if "2" is displayed in the case of EW model and if "1" is displayed for UC model.
- When "GPS model", "Hide away model" and "region code" are all OK, you can move on to the next inspection by the [↓] key on the remote controller.

12. Language selection flag initialize



- When the system enters into this inspection, language selection will be set to the original setting made at the time of shipment (i.e. no setting).
- The setting is made to display the screen for selecting the language to be used at the initial boot up after the shipment out of the factory.
- The setting is made when the system enters into this inspection.
- You can move on to the next inspection by the [↓] key on the remote controller.

13. All memory clear (Not for service)



- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- Sensor learning level is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.
- Only when everything is OK, you can move on to the next inspection by the [↓] key on the remote controller.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

● Removing the Grille Assy (Fig.1)

- ➡ 1 Remove the two screws and then remove the Holder.
Disconnect the connector.
- ➡ 2 Remove the two screws and then remove the Grille Assy.

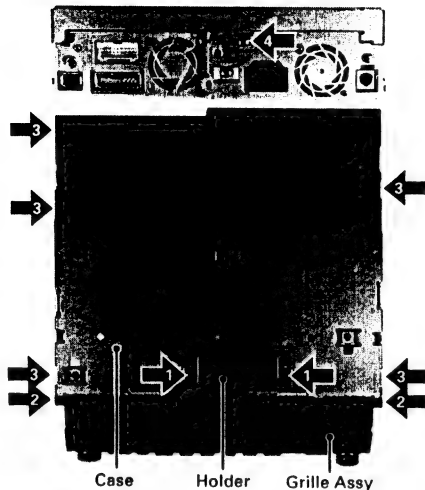


Fig.1

● Removing the Case

- ➡ 3 Remove the five screws.(Fig.1)
- ➡ 4 Remove the screw and then remove the Case.(Fig.1)

Note) Inside the product there is a flexible substrate that connects the Case and the Bracket.
Be very careful and do not give it a strong pull when removing the Case, otherwise it may be torn.

- ➡ 5 Remove the four screws. (Fig.2)

Disconnect the connector and then remove the Bracket. (Fig.2)
Remove the Case.(Fig.1)

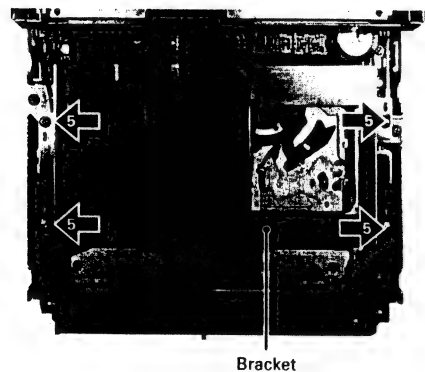


Fig.2

● Removing the DVD Mechanism Module (Fig.3)

- ➡ 1 Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.

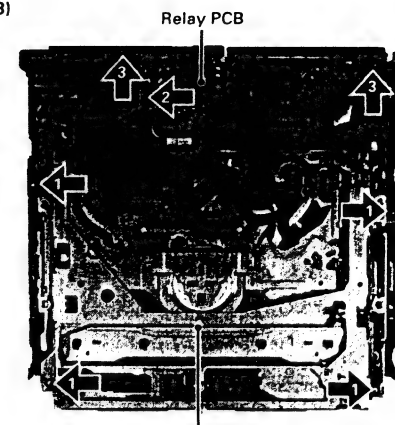


Fig.3

● Removing the Relay PCB (Fig.3)

- ➡ 2 Straighten the tab at location indicated.
- ➡ 3 Remove the two screws.

Disconnect the connector and then remove the Relay PCB.

● Removing the CC Unit (Fig.4)

- ➡ 1 Remove the screw.
- ➡ 2 Remove the three screws and then remove the Bracket.
- ➡ 3 Remove the six screws and then remove the CC Unit.

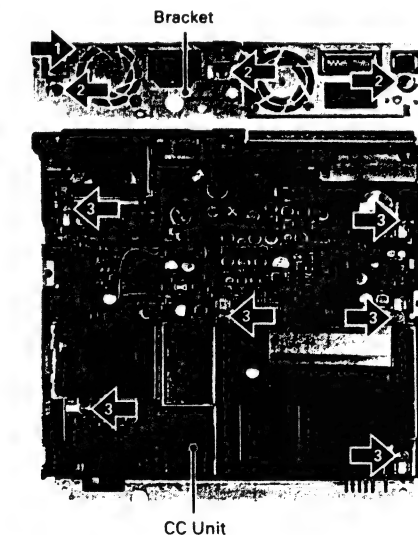
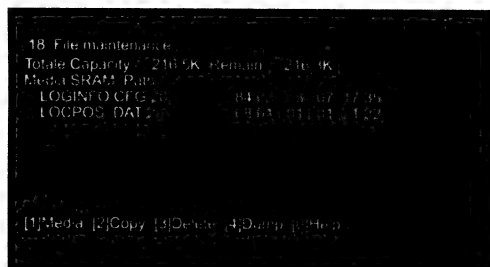


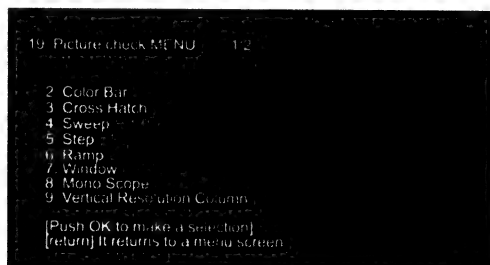
Fig.4

18. File maintenance



- File can be copied, deleted or dumped.
- Refer to HELP for "how to use" each function.

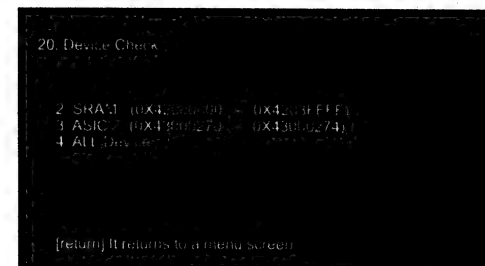
19. Picture check MENU



A pattern is selected by the [↑] and [↓] keys and an image is displayed by the [CR] key.

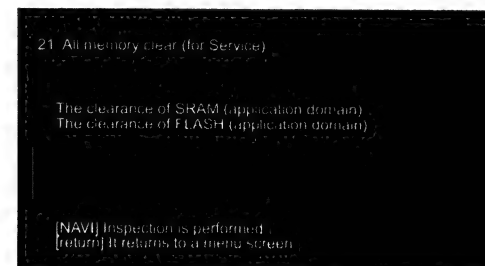
1. Plain
...Display is made in the order of black, blue, red, pink, green, light blue, yellow and white by the [←] and [→] keys operation on the remote controller.
2. Color bar
...White, yellow, light blue, green, pink, red, blue, black bars will be displayed from left to right.
3. Cross hatch
4. Sweep
5. Step
6. Lamp
7. Window
8. Mono scope
9. Cycle line 1
10. Cycle line 2
11. Horizontal stripe 1
12. Horizontal stripe 2
13. Chinese character pattern
14. Map (map.jpg)
15. Natural image (nature.jpg)
16. Portrait 1 (hito1.jpg)
17. Portrait 2 (hito2.jpg)

20. Device Check



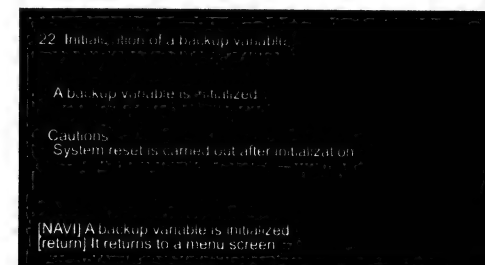
- The above devices will be inspected for engineering purpose.
- A device is selected by the [↑] and [↓] keys on the remote controller, and cleared by the [CR] key.
- On each device screen, a pattern is selected by the [↑] and [↓] keys on the remote controller, and inspection is started by the [CR] key on the remote controller.

21. All memory clear (for Service)



- SRAM (application domain) is cleared.
- FLASH (application domain) is cleared.
- If SRAM clear is not successful, FLASH will not be cleared.
- After the inspection screen is displayed, the above process is executed by the [NAVI] key on the remote controller.
- The result of the process is displayed.

22. Initialization of a backup variable



- Back up variables are initialized by the [NAVI] key on the remote controller for system reset.
- The screen will return to the menu screen by the [RETURN] key on the remote controller.

● Removing the Case (Fig.10)

- 1 Remove the nine screws and then remove the Case.

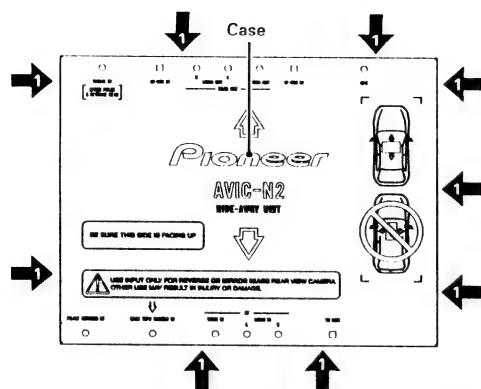
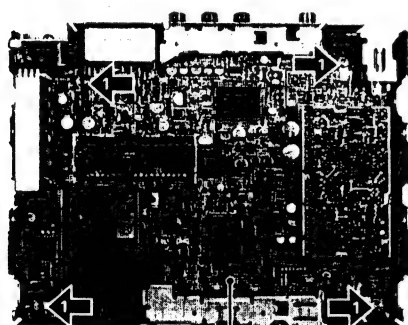


Fig.10

● Removing the Mother Tuner Unit (Fig.11)

- 1 Remove the four screws.

Disconnect the connector and then remove the Mother Tuner Unit.

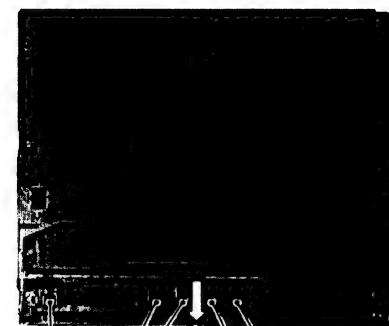


Mother Tuner Unit

Fig.11

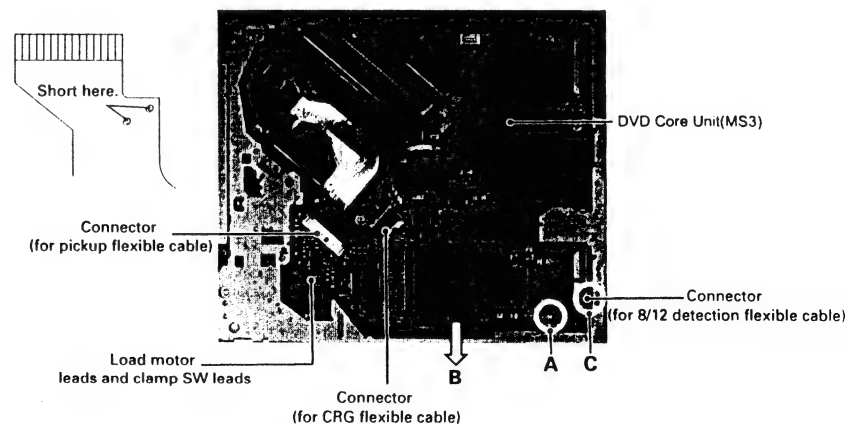
● Precautions on handling the mechanism module

1. Hold the upper and main frames.
2. Do not hold the front portion of the upper frame. It is a delicate part.
3. Do not touch the switches on the top panel.
4. Be careful not to catch the flexible cables.



● Removing the DVD Core Unit(MS3)

1. Set the mechanism to the lock position (disc load standby position).
2. Place the mechanism module upside down.
3. Short the two lands on the pickup flexible cable as shown below.
4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
5. Remove solder from the load motor leads and clamp SW leads.
6. Loosen the two fixing screws. Lift the position A of the DVD Core Unit lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
7. Disconnect the 8/12 detection flexible-cable from the connector.



● Removing the Case (Fig.5)

- ➡ 1 Remove the two screws and then remove the Holder.
- ➡ 2 Remove the screw.
- ➡ 3 Remove the five screws and then remove the Case.

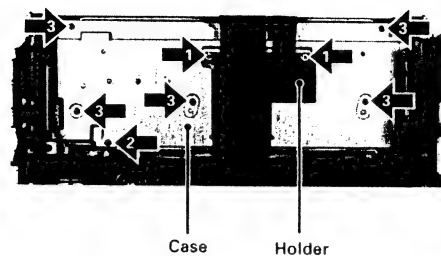


Fig.5

● Removing the Display Assy (Fig.6)

- ➡ 1 Remove the screw.
- Disconnect the connector and then remove the Motor Unit.
- ➡ 2 Remove the two screws and then remove the two Holders.
 - ➡ 3 Pull out the Display Assy in the arrow indicated direction.

Note) When reassembling, hold the switch down with tweezers or the like and put the Display Assy back to the Chassis. Otherwise, the switch may be damaged and not function properly.

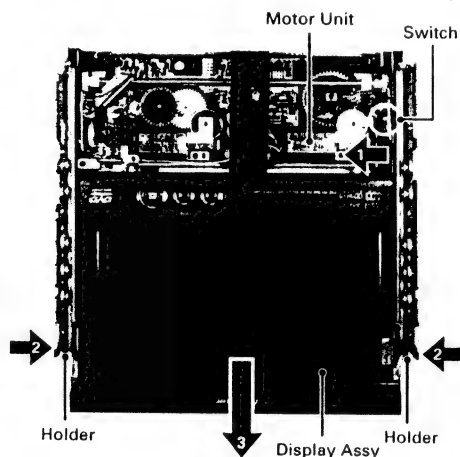


Fig.6

● Removing the Main Unit (Fig.7)

- ➡ 1 Remove the screw and then remove the Bracket.
- ➡ 2 Remove the four screws and then remove the Shaft Unit.
- ➡ 3 Remove the three screws.

Disconnect the connector and then remove the Main Unit.

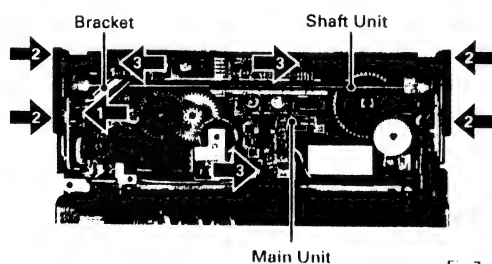


Fig.7

● Removing the Display Assy (Fig.8)

- ➡ 1 Remove the two screws and then remove the Holder.
- ➡ 2 Remove the three screws and then remove the Cover Unit.
- ➡ 3 Remove the four screws.

Disconnect the connector and then remove the Display Assy.

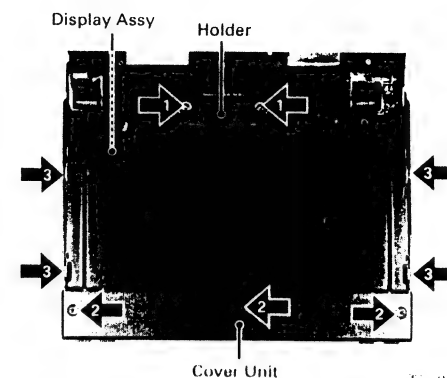


Fig.8

● Removing the Monitor PCB (Fig.9)

- ➡ 1 Straighten the tabs at two locations indicated.
- ➡ 2 Remove the screw.

Disconnect the connector and then remove the Monitor PCB.

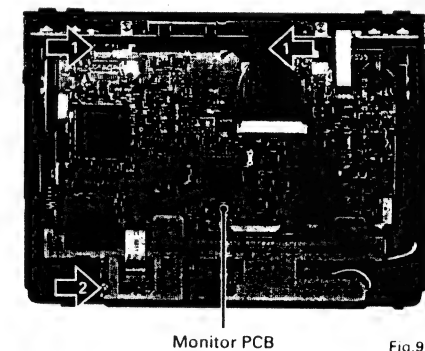
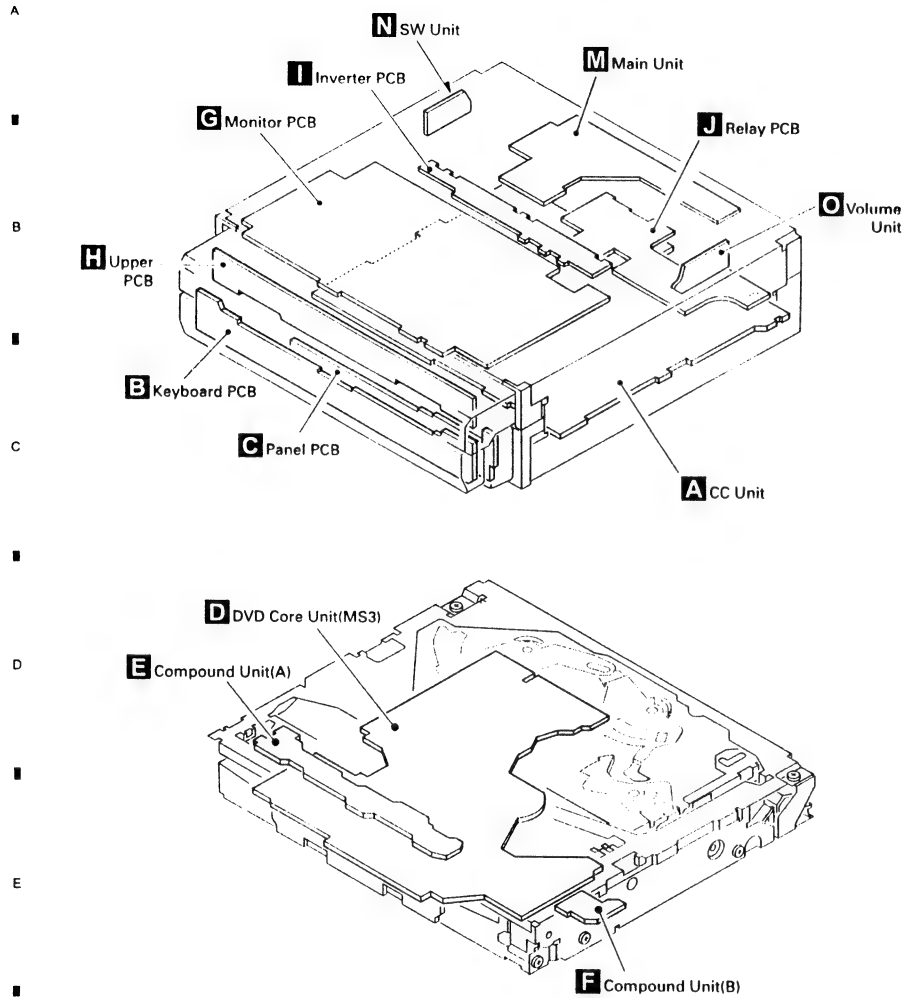
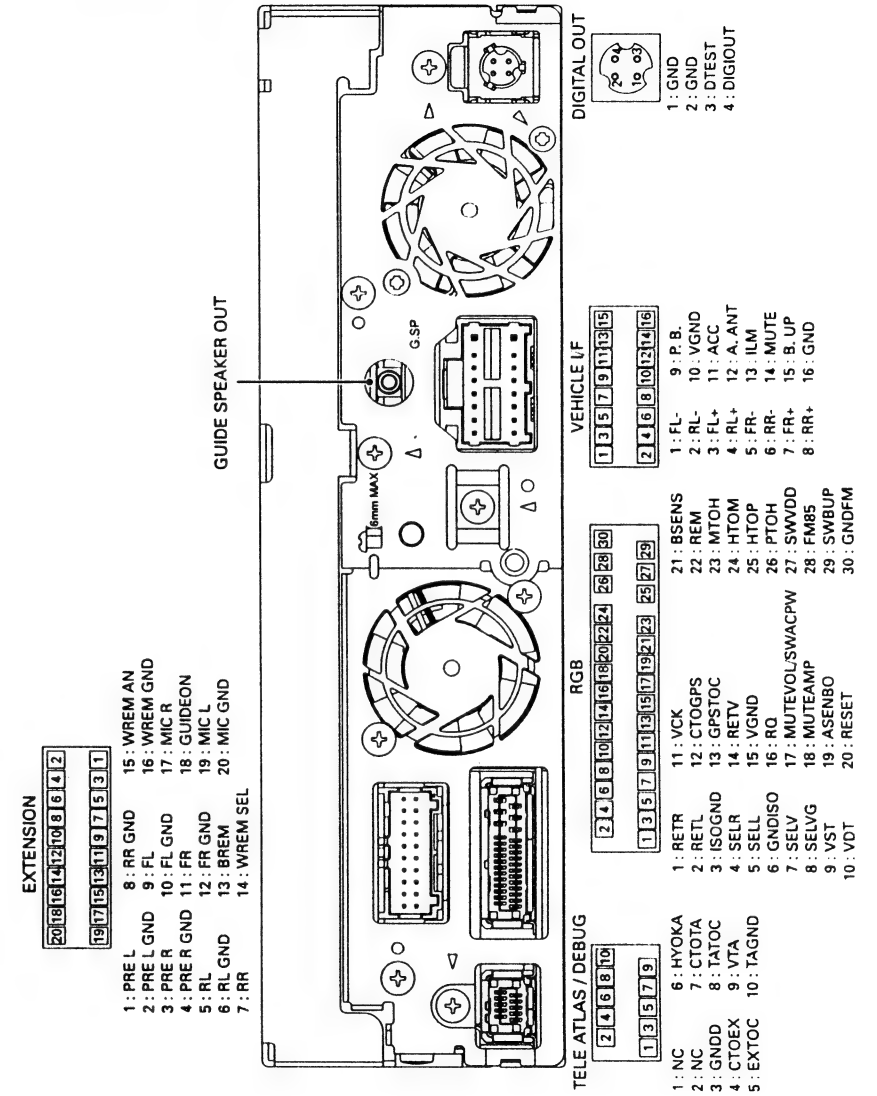


Fig.9

7.1.2 PCB LOCATIONS



7.1.3 CONNECTOR FUNCTION DESCRIPTION



● Removing the Pickup Unit

1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
2. While holding the pickup case, remove the Skew screw (main).
3. Lifting the end of the pickup rack, slide the main shaft, and remove the Pickup Unit.

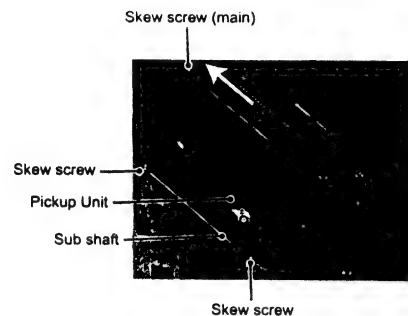
Notes:

Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new Pickup Unit.

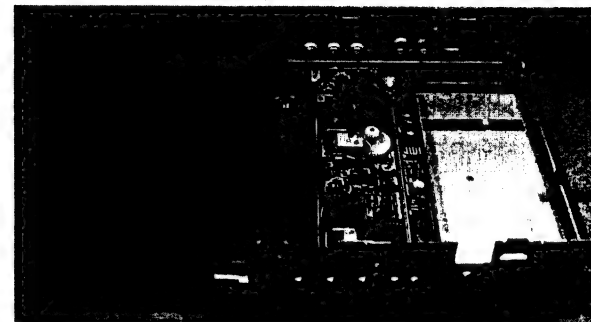
Fix the skew screw with Screw lock (GYL1001) after adjustment.



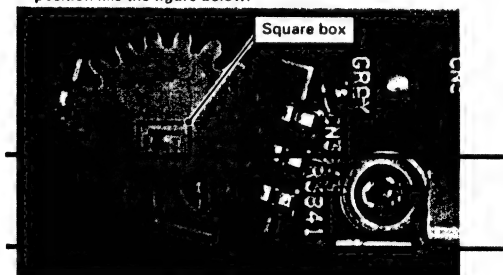
● How to Install the Volume Unit to the Drive Unit

When install the Volume Unit, adjust the positioning of the rotating angle of the gear.

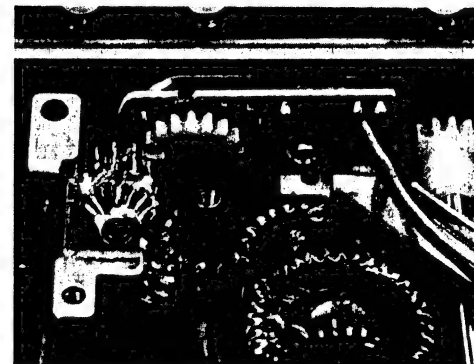
1. Set the Monitor Unit horizontally with the Main Unit of the Drive Unit.

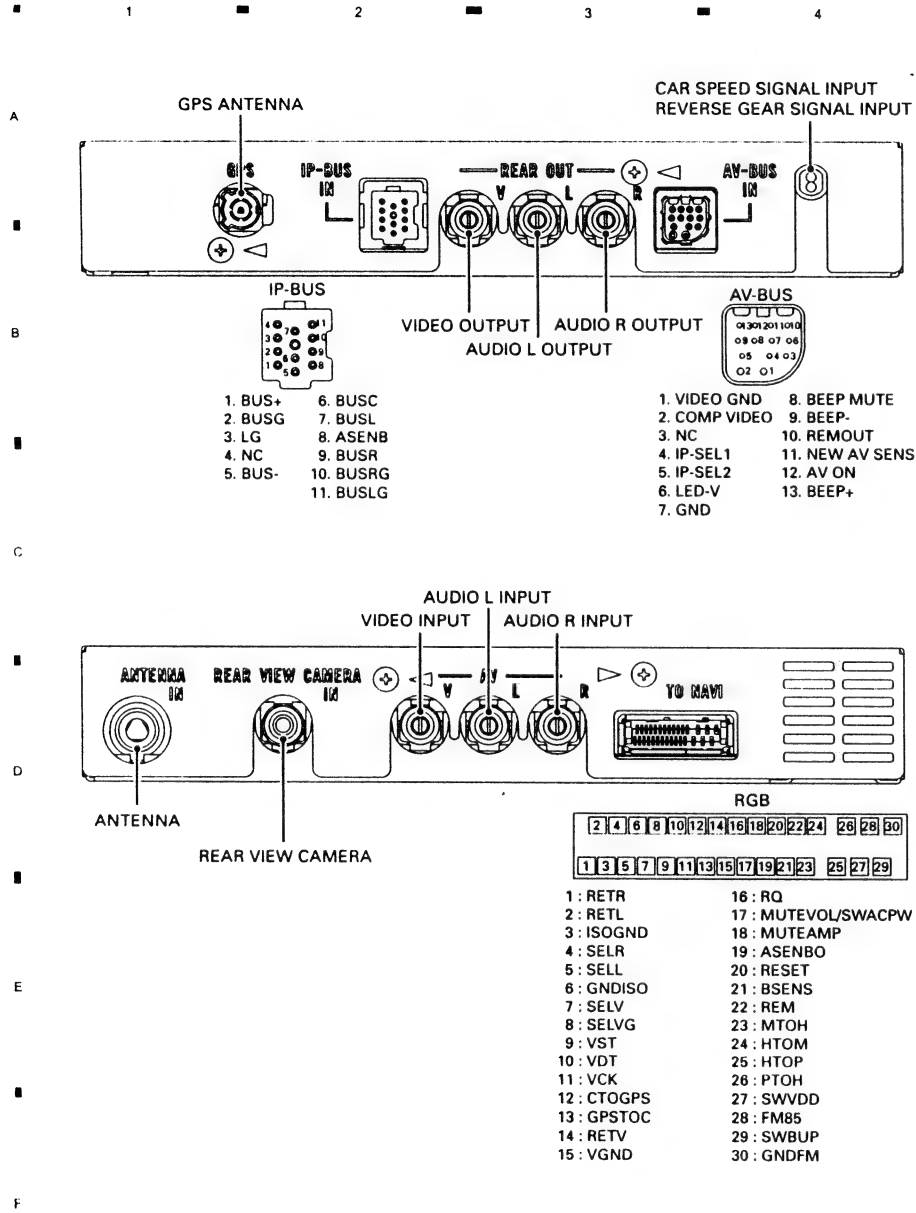


2. When install the gear unit, rotate the gear by hand until the square box of the gear keeps in a horizontal position like the figure below.



*Gap of one teeth is acceptable.



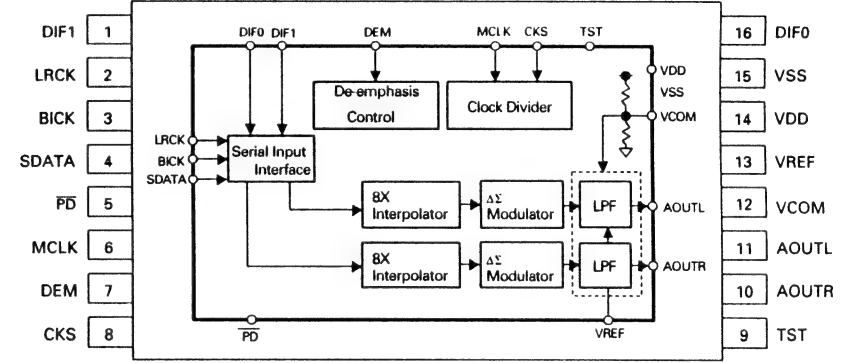


7.2 PARTS

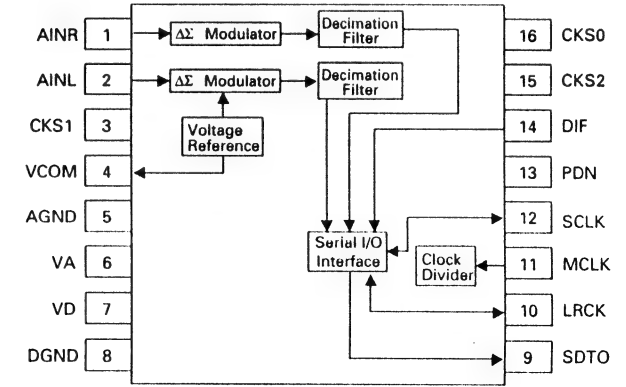
7.2.1 IC

AK4351VT	MB86291APFVS-G-DL	SBX3050 01	S-93C46BR01-J8T1
AK5381VT	S-L2980A33MC-C6S	PD6473A(UC model)	R1224N102H
HY57V561620CLT-H	NJM2561F1	PD6472A(EW model)	HA12240FP
K4S561632E-TL75	PD6336C	PD6340A	S-L2980A50MC-C7J
PEH005A(UC model)	PD5937A	PE5413B	S-812C33AMC-C2N
PEH003A(EW model)	PD3390A	S-80835CNNB-B8U	PE5412B(UC model)
PEH006A(UC model)	LC72720YVS(EW model)	SI6544DQ	PE5411B(EW model)
PEH004A(EW model)		TK15404AMI	

AK4351VT

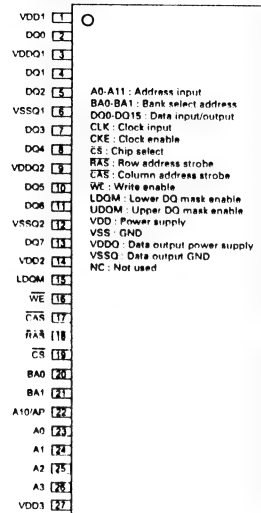


AK5381VT

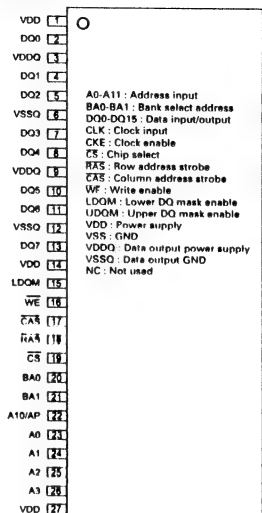


IC's marked by * are MOS type.
Be careful in handling them because they are
very liable to be damaged by electrostatic induction.

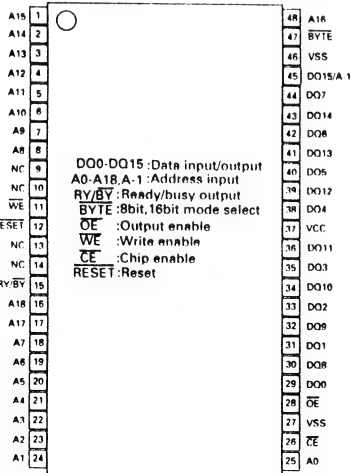
* HY57V561620CLT-H



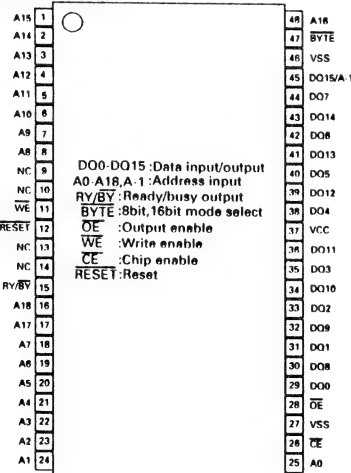
* K4S561632E-TL75



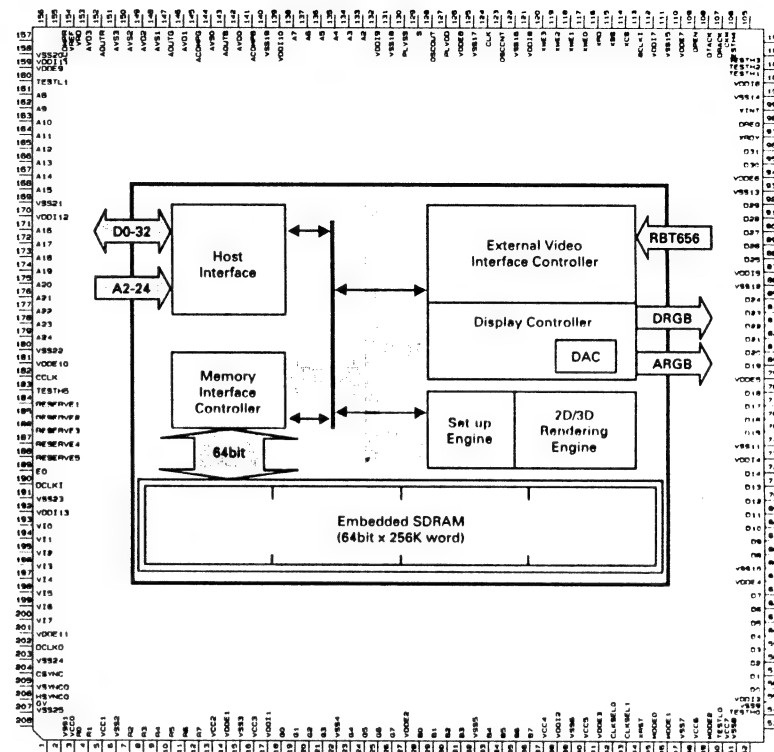
* PEH005A(UC model)
* PEH003A(EW model)



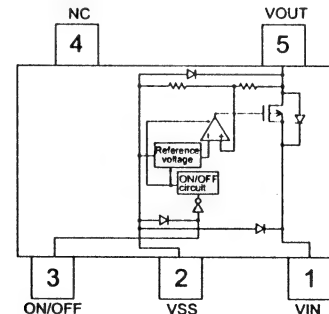
* PEH006A(UC model)
* PEH004A(EW model)



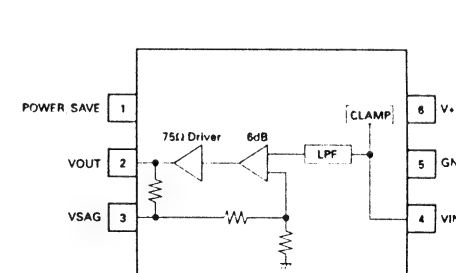
* MB86291APFVS-G-DL



* S-L2980A33MC-C6S



NJM2561F1

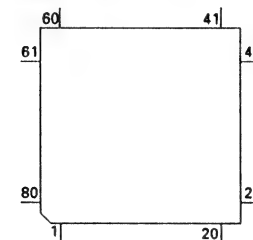


●Pin Functions(PD5937A)

Pin No.	Pin Name	I/O	Function and Operation
1	ARMSW	O	LED light output
2	NFANCNT	O	CC Unit Fan motor control output
3	AFANCNT	O	Power amplifier IC Fan motor control output
4	ILMPWR	O	Illumination ON output
5	REAON	O	Illumination color select output, when the rear monitor is ON (H : Green, L : Amber)
6	CNVSS	I	Connect to GND
7	DISC	I	Disc detect input
8	EJECT	I	Disc eject input
9	RESET	I	Reset input
10	XOUT	O	Crystal oscillator connection pin
11	GND		GND
12	XIN	I	Crystal oscillator connection pin
13	VDD		VDD
14	INT	I	Connect to VDD
15	BSENS	I	Backup sense input
16	ASENS	I	ACC sense input
17	FDSEN	I	Grille detach sense input
18	RST3	O	Navigation control reset output
19	AUPW	O	Audio power supply control output
20	DRAMPW	O	Navigation control DRAMPW output
21	BEEP	O	BEEP output
22	RXN	I	Data input from Navigation (UART)
23	TXIN	O	Data output to Navigation (UART)
24	TSO	O	Data output to Hideaway Unit (UART)
25	TSI	I	Data input from Hideaway Unit (UART)
26	TSCK	I	Test program clock input
27	BUSY		Not used
28	CCON	O	Navigation control CCON output
29	XCCSTB	I	Stand-by OK of the CC Unit input
30	CPUWDT	I	Watch dog timer input
31	IRQPW	O	Navigation control IRQPW output
32	RSTOUT	O	Navigation control RSTOUT output
33	MUTEPE		Not used
34	MUTNS	O	Mute output at the time of MIX
35	SELL	O	Navigation voice Lch MIX control output
36	SELR	O	Navigation voice Rch MIX control output
37	VFSEL	O	Front monitor source select output (H : Hideaway Unit, L : MS3)
38	VRSEL	O	Rear monitor source select output (H : Hideaway Unit, L : MS3)
39	VSEL3		Not used
40	DATA		Not used
41	CLK		Not used
42	CS		Not used
43	AMPSTB	O	Amplifier stand-by output
44	ILMSEL	O	Illumination color select output (H : Amber, L : Green)
45	ILMDIM	O	Sub display DIM power supply control output
46	DSENS	I	Detach sense input
47	ILMSENS	I	Illumination sense input
48	PBSENS	I	Parking brake sense input
49	TELIN	I	TEL mute input
50	ASENBO	O	ASENS output
51	MUTESO	O	Mute output
52	LIFTPUL	I	Lift pulse input
53	MTRS	O	Flap motor speed control output
54	MTRPW	O	Flap motor control power supply output
55	MTR1	O	Flap angle motor control signal output
56	MTR1	O	Flap position motor control signal output
57	MTRSEL	O	Flap motor control output
58	ANGLE0SW	I	Flap angle 0 sense input
59	LIFTSW	I	Lift sense input
60	SENSE5	O	Pulse power supply control output
61	ANTPW	O	Auto antenna power output
62	WCONT	I	Wired remote control SEL input
63	TESTIN	I	Test mode input
64	TIMEOUT	I	Timeout input
65-67	SIMUKE0-2	I	Model select input0-2
68	51MUTE	O	5.1 ch mute output

Pin No.	Pin Name	I/O	Function and Operation
69	NC		Not used
70	WREMIN	I	Wired remote control AD input
71	ATEMPI		Not used
72	ANGLE	I	Flap angle sense input
73	NTEMP1	I	CC Unit temperature input
74	NC		Not used
75	AVSS		A/D GND
76	NC		Not used
77	AVREF		A/D converter reference voltage
78	AVCC		A/D power supply
79	NC		Not used
80	MUTEGU	O	TELIN/GUIDE interrupt notice output

* PD5937A



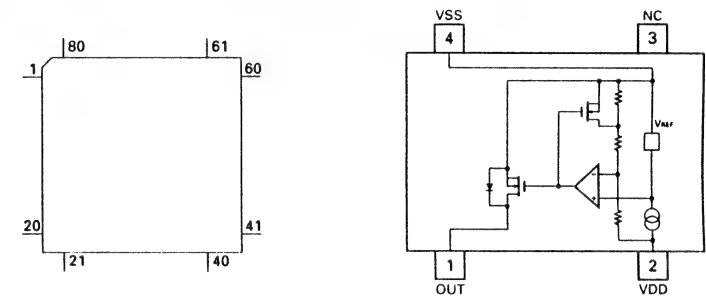
●Pin Functions(PE5413B)

Pin No.	Pin Name	I/O	Function and Operation
1	PNLAD _X	I	X directions analog input
2	LSEN	I	Lens sense input
3	PNLAD _Y	I	Y directions analog input
4	AVSS		A/D converter GND
5	DIMMER	O	Dimmer analog output
6	INVBST_DA	O	Back light boost signal output (low temperature)
7	AVREF1		D/A converter reference voltage
8	RXD	I	Data input from system microcomputer (UART)
9	TXD	O	Data output to system microcomputer (UART)
10	MFLPW	O	Back light control output
11	LKYDT	I	Data input from LCD micro computer (UART)
12	LD PDT	O	Data output to LCD micro computer (UART)
13	MVIPW	O	Picture power supply control output
14	OSDCS	O	OSD chip select output
15	NC		Not used
16	TSI	I	Test program data input
17	TSO	O	Test program data output
18	TSCK	I	Test program clock input
19	OVIC _{HK}	I	Back light power supply overcurrent detect input
20	EPRRST	I	EEPROM reset input
21	EPRTST	I	EEPROM data setup mode input
22	STEST	I	Monitor operation mode input
23	STEST2	I	Touch panel test mode input
24	PNLXV	O	Hi output is carried out when X directions is detected
25	PNLYV	O	Hi output is carried out when Y directions is detected
26	NC		Not used
27	SDA	I/O	IC data input / output
28	SCL	O	IC clock output
29	PIPRES	O	IC reset output
30	LSWVDD	O	LCD micro computer power supply control output
31,32	NC		Not used
33	VSS1		GND
34-37	NC		Not used
38	ROMDATA		Not used
39	ROMCLK		Not used
40	POMCS		Not used
41,42	NC		Not used
43	INVBST		Not used
44	INVPUL	O	Inverter pulse output
45	BEEP		Not used
46	EPRCS	O	EEPROM chip select output
47	EPRSK	O	EEPROM serial clock output
48	EPRDO	O	EEPROM serial data output
49	EPRDI	I	EEPROM serial data input
50	EPRPROT	O	EEPROM memory protect output
51	TESTIN	I	Chip test input
52	NC		Not used
53	LDIMMER		Not used
54	LBKL	O	LCD micro computer back light power supply control output
55,56	NC		Not used
57	LCDTYPE1	I	LCD panel type detect input1
58	NC		Not used
59	LCDTYPE2	I	LCD panel type detect input2
60	RESET	I	Reset input
61	REMIN	I	Remote control data input
62	VDDSENS	I	Power supply sense input
63	ROT0	I	Rotary encoder input0
64	ROT1	I	Rotary encoder input1
65	LCDLR		Not used
66	TVIND		Not used
67	VSS0		GND
68	VDD1		Power supply
69	X2		Crystal oscillator connection pin
70	X1		Crystal oscillator connection pin
71	VPP		Not used
72	XT2		Not used

Pin No.	Pin Name	I/O	Function and Operation
73	XT2		GND
74	VDD0		Power supply
75	AVDD		A/D converter power supply
76	KEY0	I	Analog key data input 0
77	KEY1	I	Analog key data input 1
78	KEY2	I	Analog key data input 2
79	NC		Not used
80	TEMPSEN	I	Temperature sense input (back light boost)

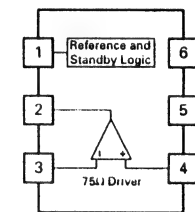
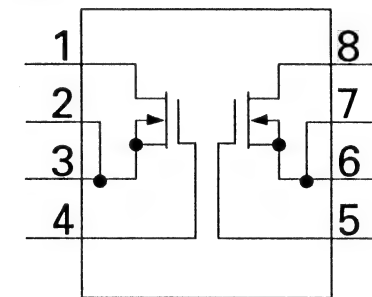
* PE5413B

* S-80835C_{NN}B-88U

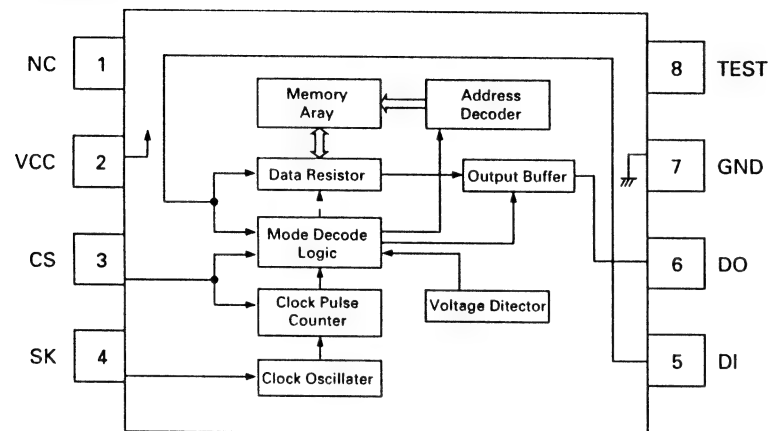


SI6544DQ

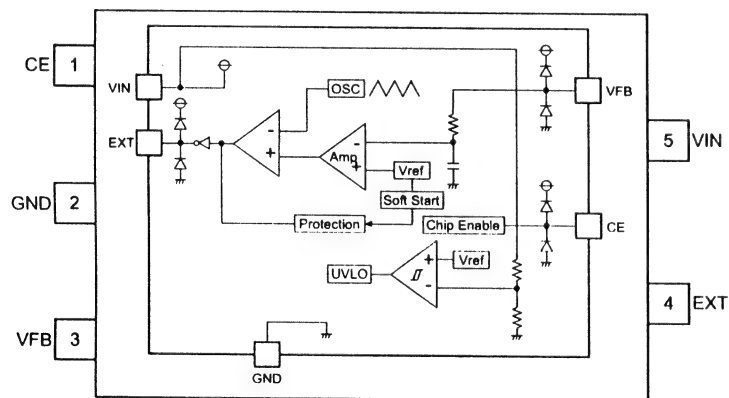
TK15404AM1



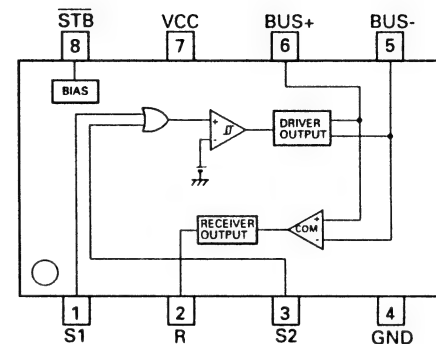
S-93C46BR0I-J8T1



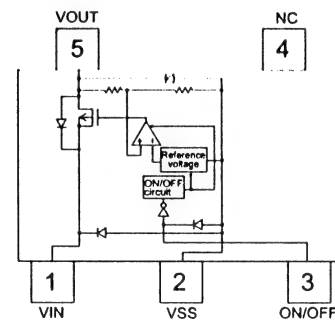
* R1274N10211



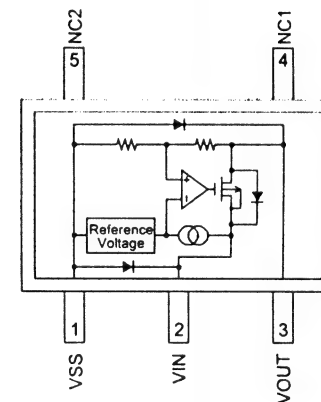
HA12240FP



* S-L2980A50MC-C7J

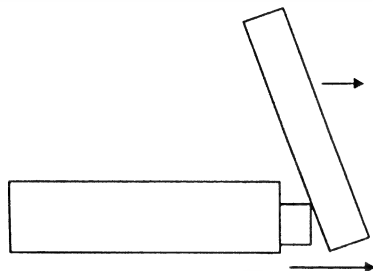


* S-812C33AMC-C2N

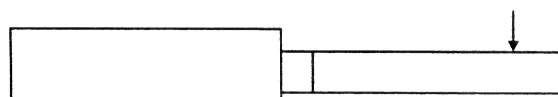


● Explanation on the FLAP temporary folding operation

1. By pressing the temporary folding key, the angle driving motor is rotated from the monitor stop position toward 0° direction. When the setback is being set to ON, the forward/backward driving motor is rotated when the key is pressed, brake is applied after 600ms has elapsed from the time when LIFTSW has switched from H to L, and the angle driving motor is rotated in 0° direction.



2. For a period of 500ms after DEGOSW has switched from H to L, the angle driving motor is rotated, and the monitor stops at its horizontal position by the brake. After 7 seconds, navigator operation sound is heard three times in 1 second interval. After 10 seconds, the angle driving motor is rotated in UP direction, and then the brake is applied to stop the motor at the last memory position. When the setback is being set to ON, after the angle driving motor stops at the last memory position, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and the motor stops after LIFTSW has switched from L to H.



● Notes related to the FLAP motion

1. Regarding the angle position, angle voltage is always checked, and the last memory is stored by addition or subtraction of the voltage. It should be noted, however, that the last memory will not be stored when the monitor is manually moved by force.
2. If the expected pulse is not detected during horizontal motion, the monitor will stop at that position.

● Table of driving unit operations by different preset modes

		OPEN state	In OPEN motion	In CLOSE motion	CLOSE state
Auto OPEN/CLOSE setting ON	Bup ON (Reset start)	OPEN state ↓ CLOSE state ↓ OPEN state ↓ Last angle			Continue OPEN motion ↓ Last angle
	Bup OFF	To stand by	To stand by	To stand by	To stand by
	Bup OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC ON	No state change			OPEN motion ↓ Last angle ↓ Return
	ACC OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC OFF	6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue OPEN motion ↓ Last angle ↓ Return 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue CLOSE motion ↓ CLOSE	No state change
Auto OPEN/CLOSE setting OFF	Last memory	OPEN	OPEN	CLOSE	CLOSE
	Bup ON (Reset start)				
	Bup OFF	To stand by	To stand by	To stand by	To stand by
	Bup OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC ON	No state change			No state change
	ACC OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC OFF	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	Last memory	OPEN	OPEN	CLOSE	CLOSE

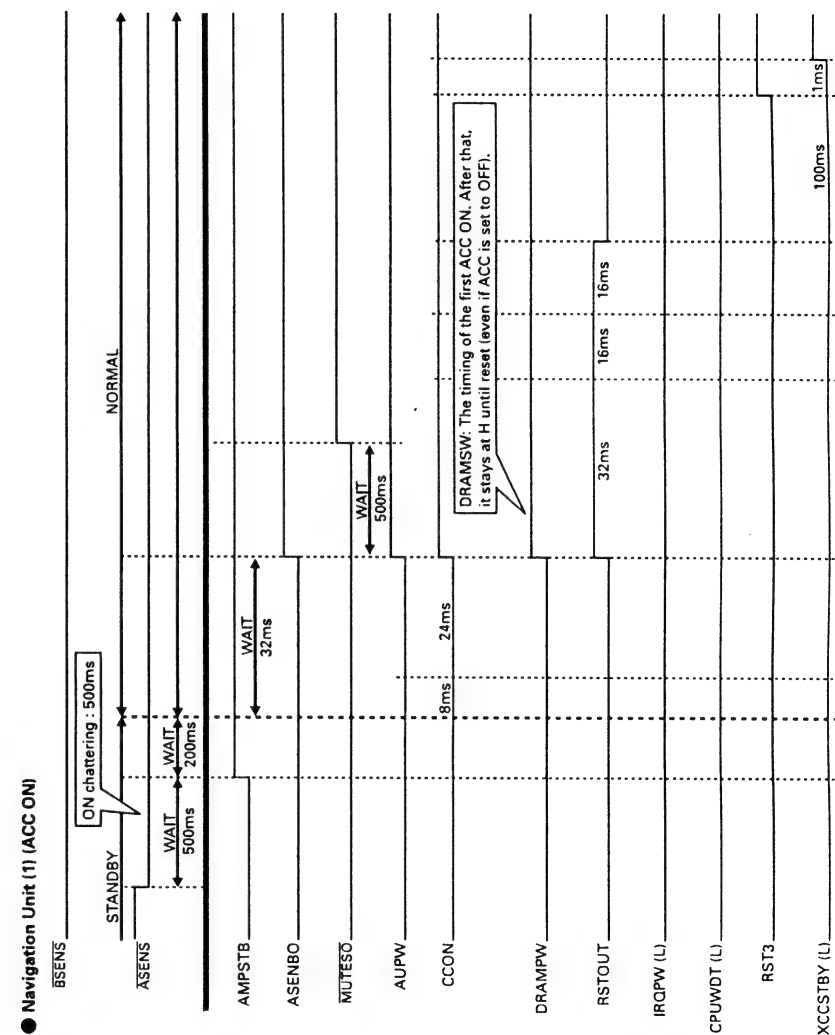
* When the setback is being set to OFF, there will be no advance/return motion.
After ACC OFF, if ACC is switched ON again during the 6 seconds counting, standby will be passed and the FLAP status will not change.

● Table of temporary folding control

		Temporary folding state (horizontal position)	Temporary folding reset (horizontal position + last angle)	Temporary folding in motion (last angle + horizontal position)
		To stand by	To stand by	To stand by
Auto OPEN/CLOSE setting ON	Bup ON	-----	-----	-----
	Bup OFF	To stand by	To stand by	To stand by
	Bup OFF → ON	Continue temporary folding motion	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Temporary folding
	ACC ON	-----	-----	-----
	ACC OFF → ON	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Temporary folding
Auto OPEN/CLOSE setting OFF	ACC OFF	6 sec from ACC OFF ↓ CLOSE motion ↓ CLOSE	Continue OPEN motion ↓ Last angle ↓ Return ↓ 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue temporary folding motion ↓ Temporary folding ↓ 6 sec from ACC OFF ↓ CLOSE motion ↓ CLOSE
	Last memory	OPEN	OPEN	OPEN
	Bup ON	-----	-----	-----
	Bup OFF	To stand by	To stand by	To stand by
	Bup OFF → ON	Continue temporary folding motion	Continue temporary folding reset	Continue temporary folding in motion
Auto OPEN/CLOSE setting ON	ACC ON	-----	-----	-----
	ACC OFF → ON	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Last angle ↓ Return
	ACC OFF	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Last angle ↓ Return
	Last memory	OPEN	OPEN	OPEN

* When the setback is being set to OFF, there will be no advance/return motion.

7.3.2 OPERATIONAL FLOW CHART



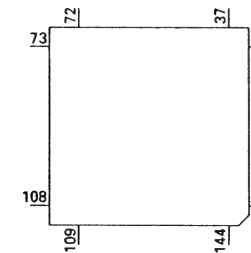
●Pin Functions(PD3390A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	VCC0			Power supply (3.3V)
2	VSS0			GND
3	TXD2	I/O		SIO2 Transmission data input / output
4	RXD2	I/O		SIO2 Reception data input / output
5	TXD1	O	C	SIO1 Transmission data output
6	RXD1	I		SIO1 Reception data input
7	TXD0	O	C	SIO0 Transmission data output
8	RXD0	I		SIO0 Reception data input
9	SPEED	I		SP I/F input
10	ADCSB	O	C	AD I/F output
11	ADSCB	O	C	AD I/F output
12	ADTXD	O	C	AD I/F output
13	ADRXD	I		AD I/F input
14	ADSRX	I		AD I/F input
15	ADIO0	I/O		AD I/F input / output
16	ADIO1	I/O		AD I/F input / output
17	ADIO2	I/O		AD I/F input / output
18	VCC1			Power supply (3.3V)
19	VSS1			GND
20	PWM	O		PWM signal output
21	PLINT	I		PLL I/F input
22	PLCE	O	C	PLL I/F output
23	PLSCK	O	C	PLL I/F output
24	PLTX	O	C	PLL I/F output
25	PLRX	I		PLL I/F input
26	PLIO0	I/O		PLL I/F input / output
27	PLIO1	I/O		PLL I/F input / output
28	PLIO2	I/O		PLL I/F input / output
29	DDINT	I		Darc I/F input
30	DDCE	O	C	Darc I/F output
31	DDSCB	O	C	Darc I/F output
32	DDTX	O	C	Darc I/F output
33	DDRX	I		Darc I/F input
34	DDIO0	I/O		Darc I/F input / output
35	DDIO1	I/O		Darc I/F input / output
36	DDIO2	I/O		Darc I/F input / output
37	TIOA0	I/O		Parallel input / output
38	TIOA1	I/O		Parallel input / output
39	TIOB0	I/O		Parallel input / output
40	TIOB1	I/O		Parallel input / output
41	VCC2			Power supply (3.3V)
42	VSS2			GND
43-53	A19-9	I/O		Address bus input / output
54	VCC3			Power supply (3.3V)
55	VSS3			GND
56-64	A8-0	I/O		Address bus input / output
65	VCC4			Power supply (3.3V)
66	VSS4			GND
67-82	D0-15	I/O		Address bus input / output
83	VCC5			Power supply (3.3V)
84	VSS5			GND
85	WRHB	I/O		Upper data write strobe input / output
86	WRLB	I/O		Lower data write strobe input / output
87	RDB	I/O		Read data strobe input / output
88	CS2B	I/O		Chip select aia 1 for external storage input / output
89	CS0B	I/O		Chip select aia 0 for ROM input / output
90	VCC6			Power supply (3.3V)

Pin No.	Pin Name	I/O	Format	Function and Operation
91	VSS6			GND
92	TEST2			Test mode
93	CKOEB	I		CK output enable input
94	CK	O	C	CPU clock output
95	CS5B	O	C	DRAM low address strobe output
96	CS3B	O	C	DRAM column address strobe output
97	CS1B	O	C	DRAM column address upper byte strobe output
98	RTCVSS1			Power supply (3.3V)
99	SRAMB	I		Backup memory select input
100	STANBYB	I		Stand by signal input
101	RTCVSS0			GND
102	XRTCIN	I		Sub crystal oscillator input (RTC)
103	XRTCOUT	O	C	Sub crystal oscillator output (RTC)
104	RTCVCC			Power supply (3.3V)
105	PCKSEL0	I		Processor clock select input
106	PCKSEL1	I		Processor clock select input
107	CCKSEL	I		CRCK signal select input
108	CCKDIR	I/O		Carrier clock direct input / inverter amp output
109	CCKVCC			Power supply (3.3V)
110	CRCK	I		Carrier clock input
111	CCKGND			GND
112-118	PC0-6	I/O		Parallel input / output
119	NMI			Connect to VCC
120	RESETB	I		System reset input
121	MSTRSTB	I		Test reset input
122	TEST0	I		Test mode input
123	TEST1	I		Test mode input
124	REFSEL	I		GPS reference clock select input
125	REFCK	I		Reference clock input
126	VCC7			Power supply (3.3V)
127	VSS7			GND
128	XAUXIN	I		Sub crystal oscillator output input (AUX)
129	XAUXOUT	O	C	Sub crystal oscillator output (AUX)
130-133	PIN0-3	I		Parallel input
134-137	PIO4-7	I/O		Parallel input / output
138	TXD3	I/O		SIO3 Transmission data input / output
139	RXD3	I/O		SIO3 Reception data input / output
140	BOWWOWB	O	C	Watch dog timer output
141	IFDIR	I/O		IF direct input / IF inverter amp output
142	IFVCC			Power supply (3.3V)
143	IF	I		IF input
144	IFGND	I		IF amp GND input

• PD3390A

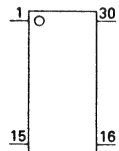
Format	Meaning
C	C MOS



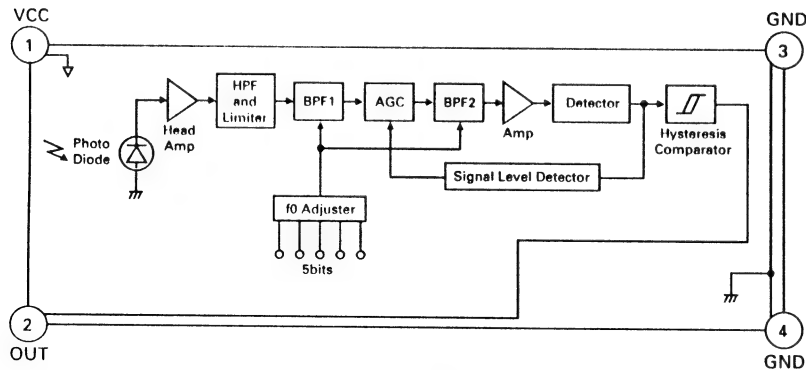
●Pin Functions(LC72720YVS : EW model)

Pin No.	Pin Name	I/O	Function and Operation
1	VREF	O	Reference voltage output
2	MPXIN	I	Base band (multiplexed) signal input
3	Vdda		Analog system power supply (+5V)
4	NC		Not used
5	Vssa		Analog system GND
6	FLOUT	O	Sub carrier output (filter output)
7	CIN	I	Sub carrier input (comparator input)
8	NC		Not used
9	T1	I	Test input (connect to GND)
10	T2	I	Test input (stand-by control)
11	T3	O	RDS clock output
12	NC		Not used
13	T4	O	RDS data output
14	T5	O	Soft-decision control data output
15	XOUT	O	Crystal oscillator output
16	XIN	I	Crystal oscillator input
17	Vddd		Digital system power supply (+5V)
18	Vssd		Digital system GND
19	NC		Not used
20	T6	O	Error status, regenerated carrier and error block count outputs
21	T7	O	Error correction status, SK detection and error block count outputs
22	SYNC	O	Block synchronization detection output
23	NC		Not used
24	RDS-ID	O	RDS detection output
25	DO	O	Data output
26	CL	I	Clock input
27	NC		Not used
28	DI	I	Data input
29	CE	I	Chip enable input
30	SYR	I	Synchronization and RAM address reset input

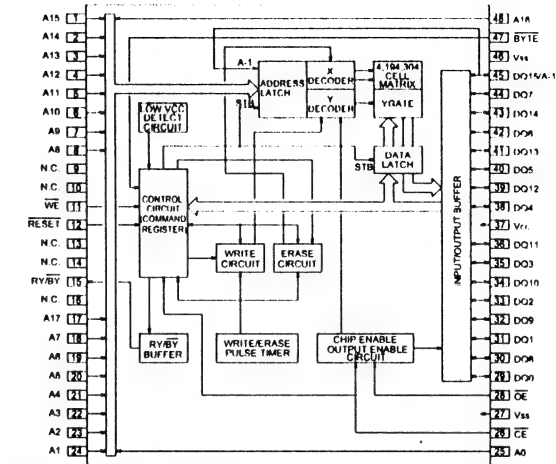
* LC72720YVS(EW model)



SBX3050-01



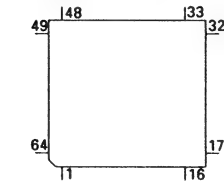
- PD6473A(UC model)
- PD6472A(EW model)



● Pin Functions (PD6340A)

Pin No.	Pin Name	I/O	Function and Operation
1-5	SEG4-0	O	LCD segment output
6-9	COM3-0	O	LCD common output
10	VLCD		LCD drive power supply
11-14	KST3-0	O	Key strobe output
15,16	KDT0,1	I	Key data input (analogue input)
17	REM	I	Remote control reception input
18	DPDT	I	Display data input
19	NC		Not used
20	KYDT	O	Key data output
21	MODA		GND
22	XO		Crystal oscillator connection pin
23	XI		Crystal oscillator connection pin
24	VSS		GND
25,26	KDT2,3	I	Key data input
27,28	KST5,4	O	Key strobe output
29-55	SEG39-13	O	LCD segment output
56	VDD		Power supply
57-64	SEG12-5	O	LCD segment output

• PD6340A

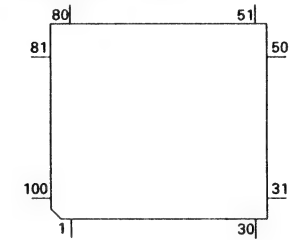


●Pin Functions(PE5412B : UC model)(PE5411B : EW model)

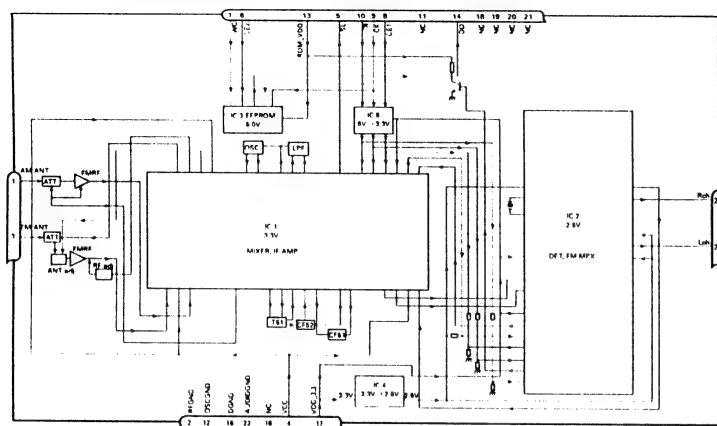
Pin No.	Pin Name	I/O	Function and Operation
1	HTOP	O	UART output to power supply microcomputer
2	HFANCONT		Not used
3-5	NC		Not used
6	MTOH	I	UART input from monitor microcomputer
7	HTOM	O	UART output to monitor microcomputer
8	TSCK		Not used
9	EVDD		Power supply
10	EVSS		GND
11	MUTEAMP	O	Mute output (AMP)
12	ACCPW		Not used
13	SWACPW	O	Monitor microcomputer power supply output
14	HACCPW	O	Hide away power supply ON/OFF output
15-17	NC		Not used
18	SWBUPSW		Not used
19	SWVDDSW		Not used
20	HFANON		Not used
21	VPP		VSS
22	VCK	O	E-VOL : Clock output
23	VDI	O	E-VOL : Data output
24	VST	O	E-VOL : Strobe pulse output
25	MUTEVOL	O	E-VOL : Mute output
26	RX	I	IP-BUS : Data input
27	TX	O	IP-BUS : Data output
28	IPPW	O	IP-BUS : Driver power supply control output
29	ASENBO	O	IP-BUS : Slave ACC sense output
30	NC		Not used
31	ROMDATA		Not used
32	ROMCLK		Not used
33	ROMCS		Not used
34	RESET	I	Reset input
35	XT2		Open
36	XT1		Pull up
37	REGC		Memory connection for the regulator stabilization
38	X2		Crystal oscillator connection pin
39	X1		Crystal oscillator connection pin
40	VSS		GND
41	VDD		Power supply
42	PCL		Clock output
43	NC		Not used
44	REVSNS	I	Reverse signal sense input
45,46	STEST1,2	I	Single operation mode input1,2
47,48	SIMUKE1,2		Not used
49	TESTIN	I	Test mode input
50	NC		Not used
51,52	VSELIN1,2	I	VSEL input1,2
53	AVONIN	I	AV-BUS : AV ON input
54-57	NC		Not used
58	BVDD		Power supply
59	BVSS		GND
60	RECIVE		Not used
61	RDSHSLK	I	RDS : High speed signal input (EW model)
62	RDSLK	I	RDS : Signal input (EW model)
63	RDIT	I	RDS : Data input (EW model)
64	NC		Not used
65,66	TUNCE1,2	O	PLL chip enable output1,2
67	NC		Not used
68	HMUTEA	O	Rear voice mute output
69	HMUTEV	O	Rear picture driver stand-by output
70	NC		Not used
71	SCL	I/O	IIC-BUS : Clock input/output
72	SDA	I/O	IIC-BUS : Data input/output
73	AVSELMUTE		Not used
74	AVDD		VDD
75	AVSS		VSS
76	AVREF		Not used
77	TUNSL	I	FM/AM tuner : Signal level analog input

Pin No.	Pin Name	I/O	Function and Operation
78	TEMP		Not used
79-89	NC		Not used
90	BSNS	I	Backup sense input
91	ASENS	I	ACC sense input
92	TUNLDET	I	Tuner : PLL lock detect input (EW model)
93	RDSCK	I	RDS : Data clock input (EW model)
94-96	NC		Not used
97	TUNPDI	I	FM/AM tuner : PLL data input
98	TUNPDO	O	FM/AM tuner : PLL data output
99	TUNCK	O	PLL clock output
100	PTOH	I	UART input from power supply microcomputer

* PE5412B(UC model)
* PE5411B(EW model)

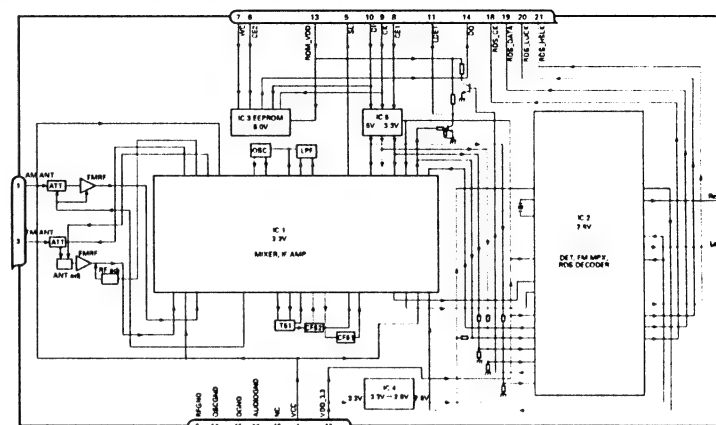


● FM/AM Tuner Unit (AVIC-N2/XU/UC)



No.	Symbol	I/O	Explain
1	AMANT	I	AM antenna input AM antenna input high impedance. AMANT pin is connected with an all antenna by way of 4.7μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground Ground of antenna block
3	FMANT	I	FM antenna input Input of FM antenna 75Ω Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply The power supply for analog block. D.C 8.4V ± 0.3V
5	SL	O	signal level Output of FM/AM signals level
6	CE2	I	chip enable-2 Chip enable for EEPROM "Low" active
7	WC	I	write control You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1 Chip enable for AF-RF "High" active
9	CK	I	clock Clock
10	DI	I	data in Data input
11	NC		non connection Not used
12	OSCGND		osc ground Ground of oscillator block
13	ROM_VDD		power supply Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out Data output
15	DGND		digital ground Ground of digital block
16	NC		non connection Not used
17	VDD_3.3		power supply The power supply for digital block. 3.3V ± 0.2V
18	NC		non connection Not used
19	NC		non connection Not used
20	NC		non connection Not used
21	NC		non connection Not used
22	AUDIOGND		audio ground Ground of audio block
23	L ch	O	L channel output FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output FM stereo "R-ch" signal output or AM audio output

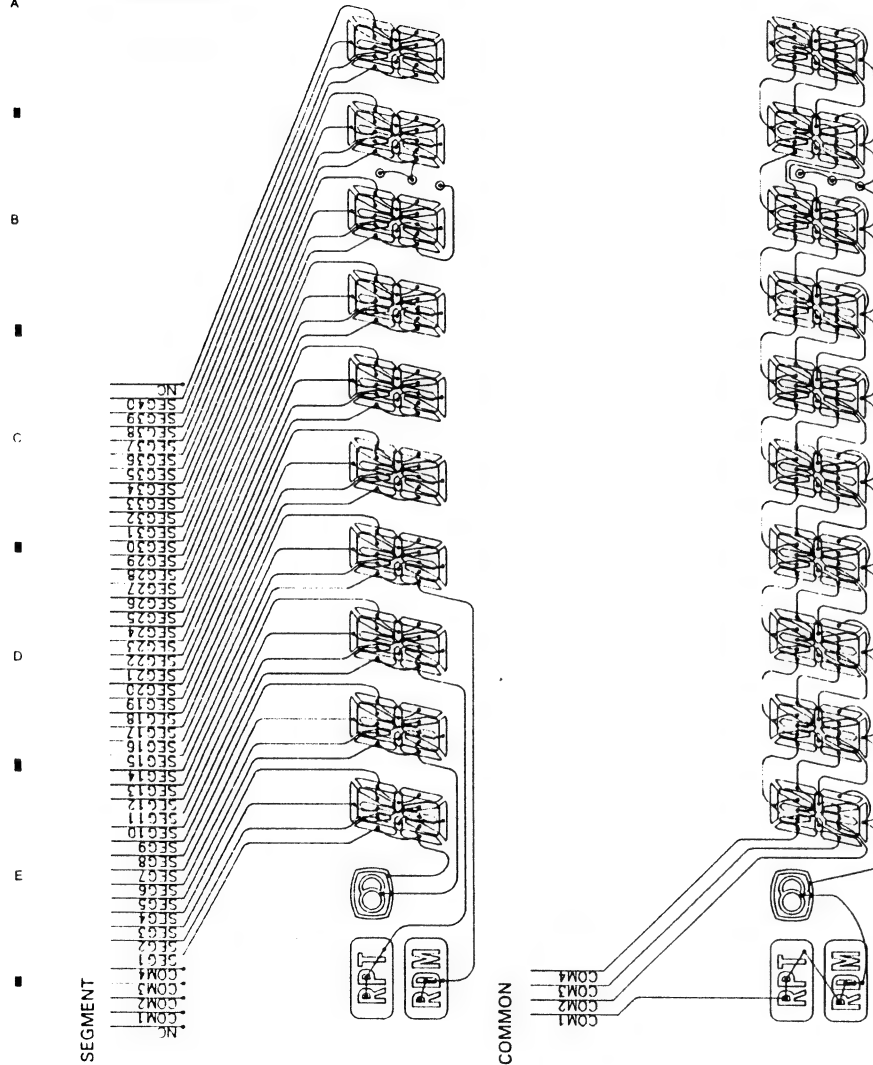
● FM/AM Tuner Unit (AVIC-X1R/XU/EW)



No.	Symbol	I/O	Explain
1	AMANT	I	AM antenna input AM antenna input high impedance. AMANT pin is connected with an all antenna by way of 4.7μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground Ground of antenna block
3	FMANT	I	FM antenna input Input of FM antenna 75Ω Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply The power supply for analog block. D.C 8.4V ± 0.3V
5	SL	O	signal level Output of FM/AM signals level
6	CE2	I	chip enable-2 Chip enable for EEPROM "Low" active
7	WC	I	write control You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1 Chip enable for AF-RF "High" active
9	CK	I	clock Clock
10	DI	I	data in Data input
11	LDET	O	lock detector "Low" active
12	OSCGND		osc ground Ground of oscillator block
13	ROM_VDD		power supply Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out Data output
15	DGND		digital ground Ground of digital block
16	NC		non connection Not used
17	VDD_3.3		power supply The power supply for digital block. 3.3V ± 0.2V
18	RDS_CK	O	RDS clock Output of RDS clock(2.5V)
19	RDS_DATA	O	RDS data Output of RDS data(2.5V)
20	RDS_LOCK	O	RDS lock Output unit "High" active(2.5V) (RDS_LOCK turns over by the external transistor. "Low" active)
21	RDS_HSLK	O	RDS high speed lock Output unit "High" active(2.5V)(RDS_HSLK turns over by the external transistor. "Low" active)
22	AUDIOGND		audio ground Ground of audio block
23	L ch	O	L channel output FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output FM stereo "R-ch" signal output or AM audio output

7.2.2 DISPLAY

● LCD(CAW1870)



7.3 EXPLANATION

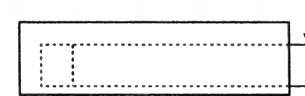
7.3.1 MECHANISM DESCRIPTIONS

● Outline of the FLAP motion

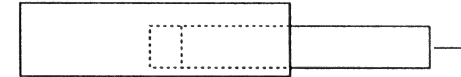
1. The motion is actuated made by two motors, the forward/backward driving motor (CXB9515) and the angle driving motor (CXB9516).
2. Analog electric potential generated by the angle encoder is detected to detect angle motion status and motion position.
3. Memory function for the angle last position is accomplished by the micro processor using the 256 resolution steps of the VDD.
4. A pulse is detected by the photo interrupter to detect the horizontal motion status.
5. In the case of reset start, the monitor will be in a stored position first, and ejection motion will take place, which puts the system in the booted up state.
6. Angle adjustment is made by the angle key (+/-).
7. OPEN/CLOSE key makes the monitor stored or ejected, and temporary folding key folds the monitor temporarily.
8. Setting of the monitor auto storage/ejection ON/OFF and set back ON/OFF at the time of ACC ON/OFF is made on the navigation menu screen.
9. A backlight is switched-off during forward/backward and storage.

● Explanation on the FLAP ejection motion

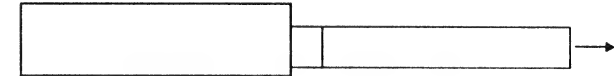
1. When the OPEN key is pressed or ACC is set to ON while the auto OPEN/CLOSE is being set to ON, angle driving motor rotates in the 0° direction for 500ms. (Pressed down.)



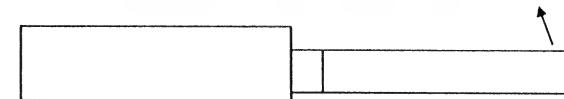
2. After 500ms, the angle driving motor is stopped, and the forward/backward driving motor rotates in the ejection direction.



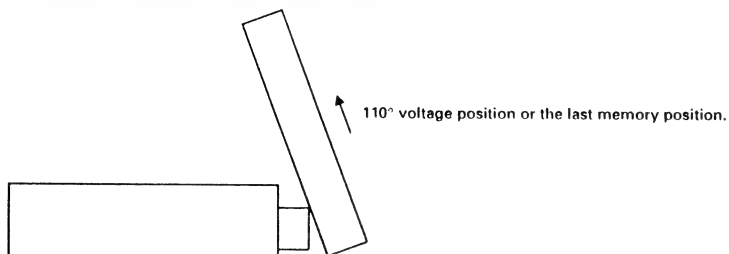
3. For a period of 600ms from the time when LIFTSW is switched from H to L, the forward/backward driving motor keeps rotating in the ejection direction.



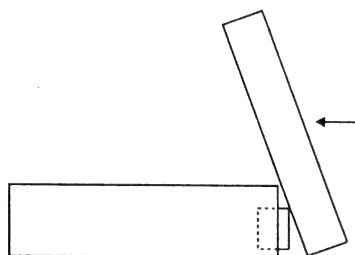
4. After 600ms, the forward/backward driving motor is stopped, and the angle driving motor rotates in the UP direction.



5. When the angle voltage reaches the voltage for 110°, brake is applied to the angle driving motor, and the ejection is completed. (In case the previous angle is stored in the memory, the motion continues to that angle.)

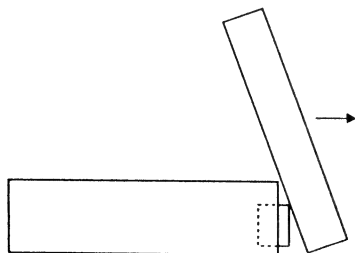


6. When the setback is set to ON, after the monitor angle voltage has reached the previously memorized voltage, brake is applied to the angle driving motor, then the forward/backward driving motor is rotated in slow speed in the storage direction. After that, when LIFTSW has switched from L to H, the forward/backward driving motor is stopped.

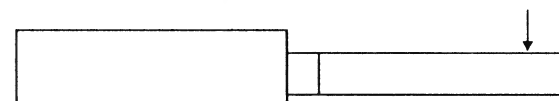


● Explanation of the FLAP storage motion

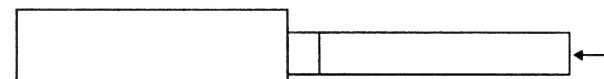
1. When CLOSE key is pressed, or after 6 seconds from ACC OFF when auto OPEN/CLOSE is being set to ON, the angle driving motor is rotated in the 0° direction. In case the setback setting is ON, the forward/backward driving motor is rotated in high speed in the ejection direction and the motor continues to rotate for 600ms from the time when LIFTSW is switched from H to L, then the angle driving motor is rotated in the 0° direction.



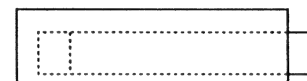
2. For a period of 500ms from the time when DIGOSW is switched from H to L, the angle driving motor is rotated in the 0° direction for the "pressed down" motion.



3. After 500ms, brake is applied to the angle driving motor, and then the forward/backward driving motor is rotated in the storage direction.

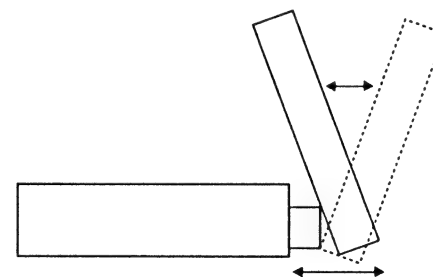


4. When the horizontal motion detection pulse is no longer detected for 200ms, brake is applied and the monitor storage motion is completed.

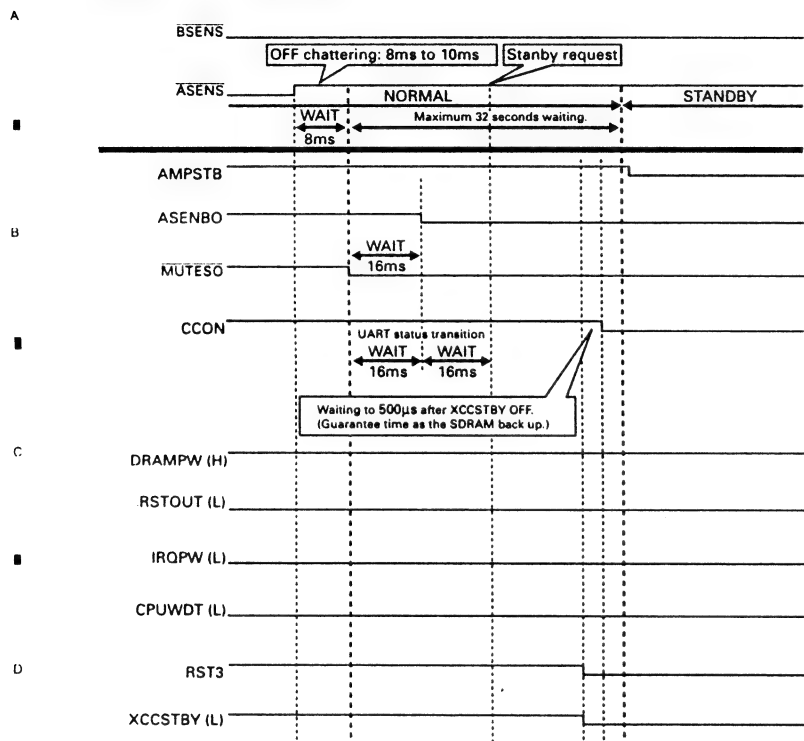


● Explanation on the FLAP angle adjustment

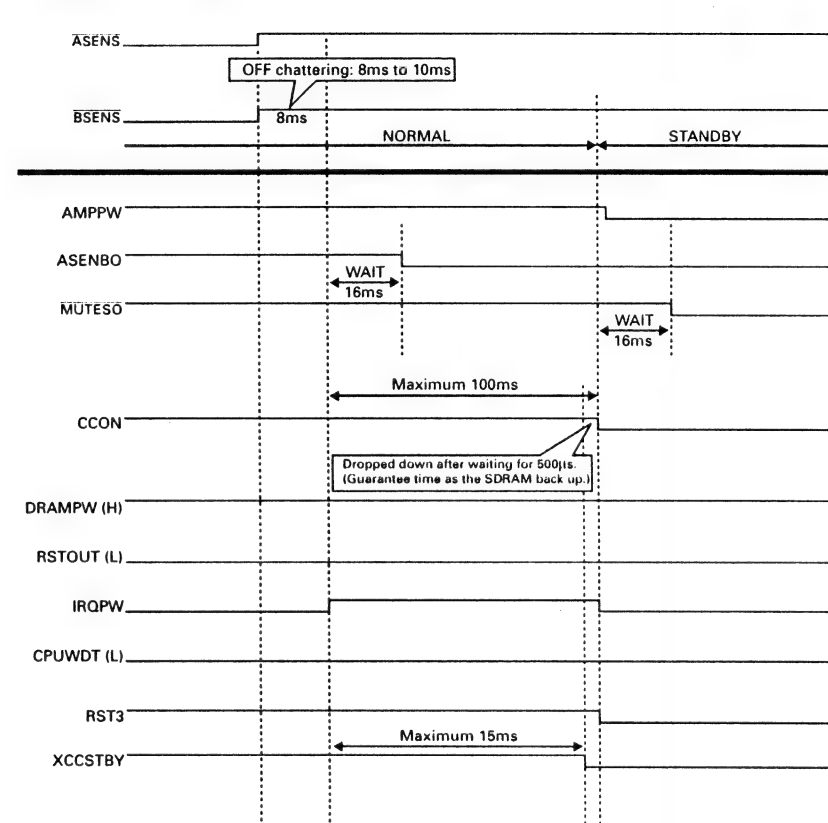
1. The angle driving motor is rotated in UP direction by the "+" key and in DOWN direction by the "-" key from the monitor stop position. If the key is kept pressed, the monitor will keep changing the angle without steps within the range of 50 to 110 degrees. When the setback is being set to ON, the forward/backward driving motor is rotated in the horizontal ejection direction while the key is being pressed, and angle adjustment is made by changing the angle voltage to the extent the angle adjustment key is effective after 600ms has elapsed from the time when LIFTSW has switched from H to L. When 3 seconds have elapsed from the time of angle adjustment completion, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and brake is applied when LIFTSW has switched from L to H.



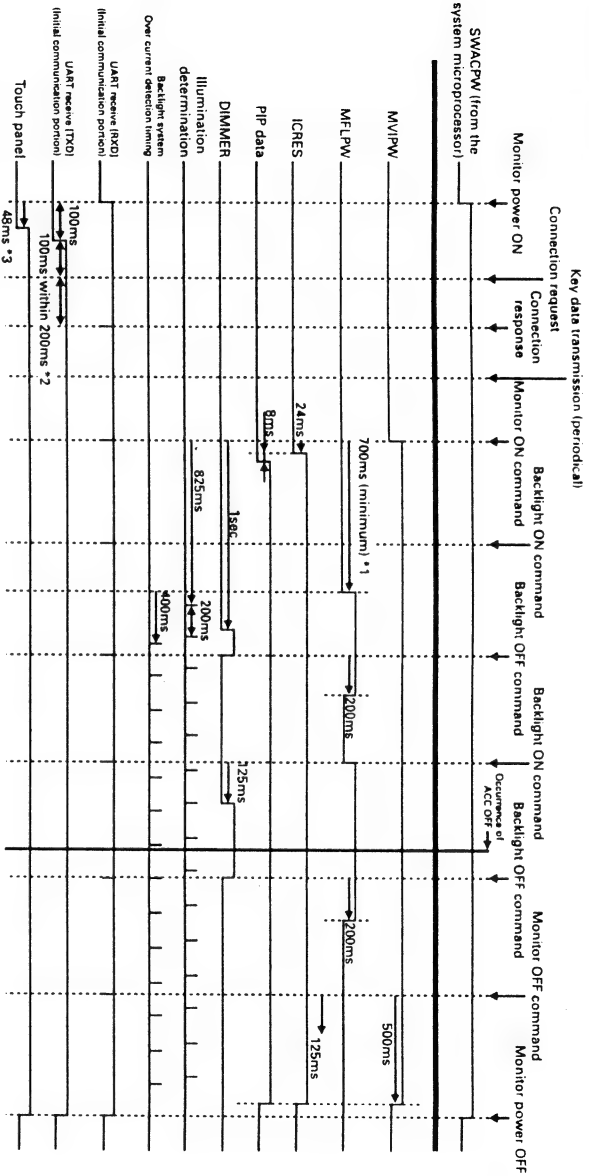
● Navigation Unit (2) (ACC OFF)



● Navigation Unit (3) (BUP OFF)



● Monitor Unit



- * 1 : While MFL/PV will turn ON by the backlight ON command, it will not turn ON for at least 700ms after MVI/PV ON.
- * 2 : In case connection response is not received from the system microprocessor within 200ms from the transmission of connection request, retry process will take place. Retry process will take place for 200ms x 16 times. In case the retry process is finished without receiving the request signal, the initial communication is determined to be NG (connection NG), and no more process will take place.
- * 3 : After 48 ms from the monitor power ON, the touch panel process (taking in AD coordinate) will take place.

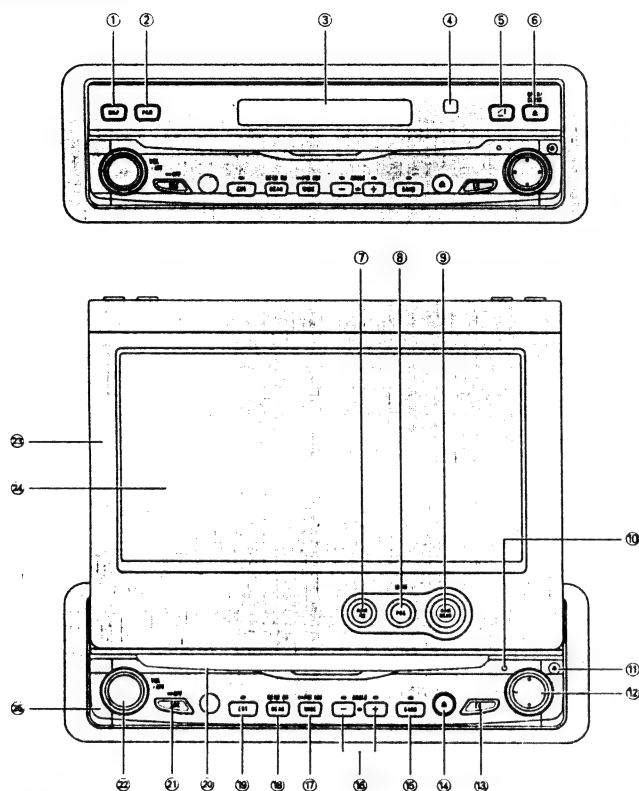
7.4 CLEANING



Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools	Cleaning liquid : GEM1004
DVD pickup lenses	Cleaning paper : GED-008	
Portions to be cleaned	Cleaning tools	Cleaning paper : GED-008
Fans	Cleaning paper : GED-008	

8. OPERATIONS



(1) DISP button

Press to select different displays.

(2) PGM button (AVIC-N2/XU/UC)

Press to operate the preprogrammed functions for each source.

(2) TA/NEWS button (AVIC-X1R/XU/EW)

Press to turn traffic announcements function on or off. Press and hold to turn NEWS function on or off.

(3) Sub display

Current time or the information of the audio source currently playing is displayed when the LCD panel is closed.

(4) Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

(5) FLIP DOWN/CLOCK button

Press to turn the LCD panel horizontal temporarily when the LCD panel is upright.

Press to turn the clock of the sub display on or off when the LCD panel is closed.

(6) OPEN/CLOSE button

Press to open or close the LCD panel.

(7) NAVI/AV button

Use to switch between Navigation map displays and audio operation displays.

(8) POS button

Press to view the map or return to guidance.

Also, when the map is scrolling, pressing this button returns you to the display of the map of your surroundings.

Use to switch the view mode of the navigation when the map of your surroundings is displayed.

(9) NAVI MENU button

Press to display a menu of Navigation.

(10) RESET button

Press to return to the factory settings (initial settings). Some information items are not erased.

(11) DETACH button

Press to remove the front panel from the display unit.

(12) Joystick

Move to do manual seek tuning, fast forward, reverse and track search controls, etc. Push to display A.MENU.

(13) EQ button

Press to select various equalizer curves.

(14) EJECT button

Press to eject a disc from this unit.

(15) BAND button

Radio:

Press to select among three FM and one AM bands.

Built-In DVD drive:

When playing back a disc containing an MP3 file and audio data (CD-DA), pressing this button switches playback between the MP3 file and CD-DA. Touch and hold this button when a disc containing an MP3 file is inserted returns you to the root folder.

(16) ANGLE (+/-) button

Press to change the LCD panel angle.

(17) WIDE button

Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.

Press and hold to enter the PICTURE ADJUST mode.

(18) REAR button

Press to output to the REAR OUT terminal the sound and images of a disc inserted in the built-in DVD drive that is different the currently selected source.

(19) ENT button

Press to switch between the background displays.

(20) Disc loading slot

Insert a disc to play.

(21) SRC (SOURCE) button

This unit is turned on by selecting a source. Press to cycle through all of the available sources. Press and hold to turn the source off.

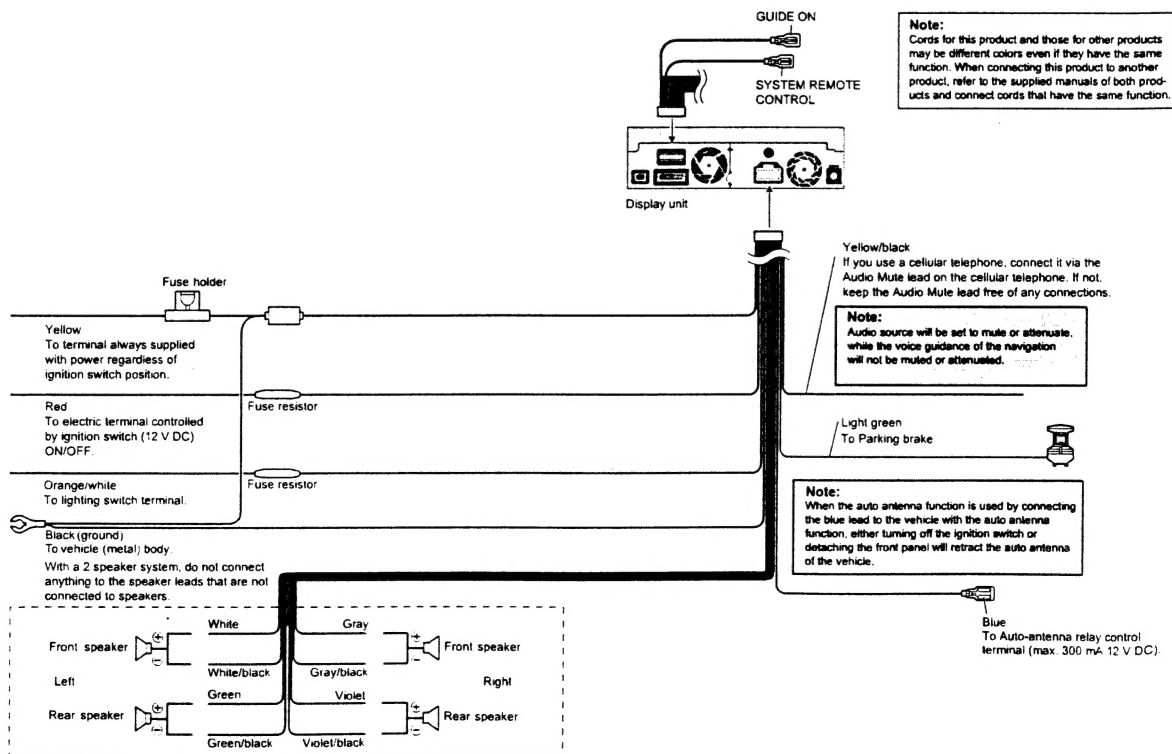
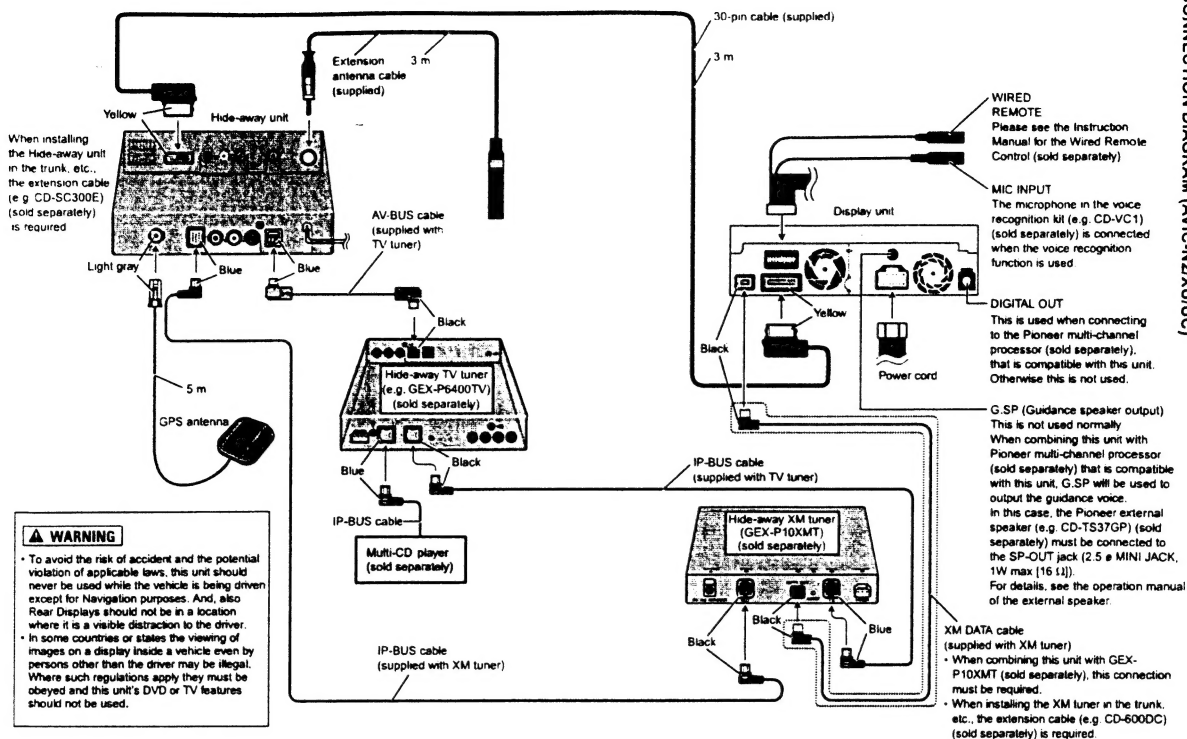
(22) VOLUME/ATT button

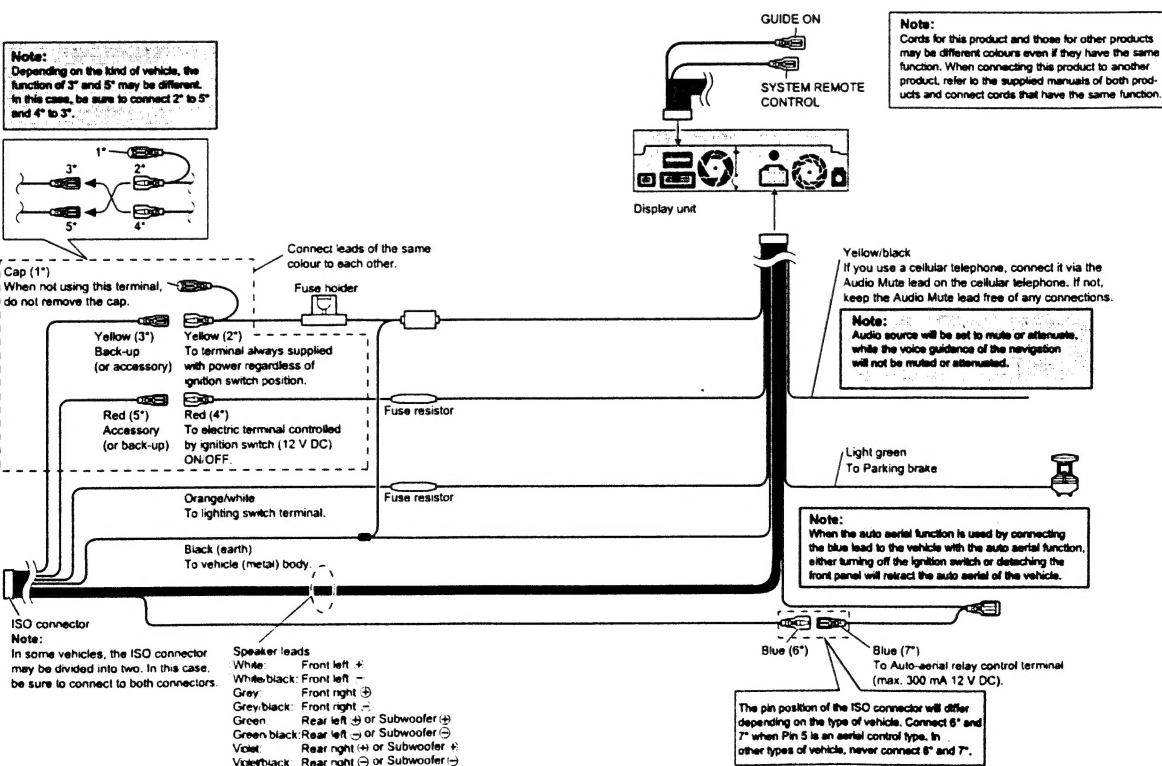
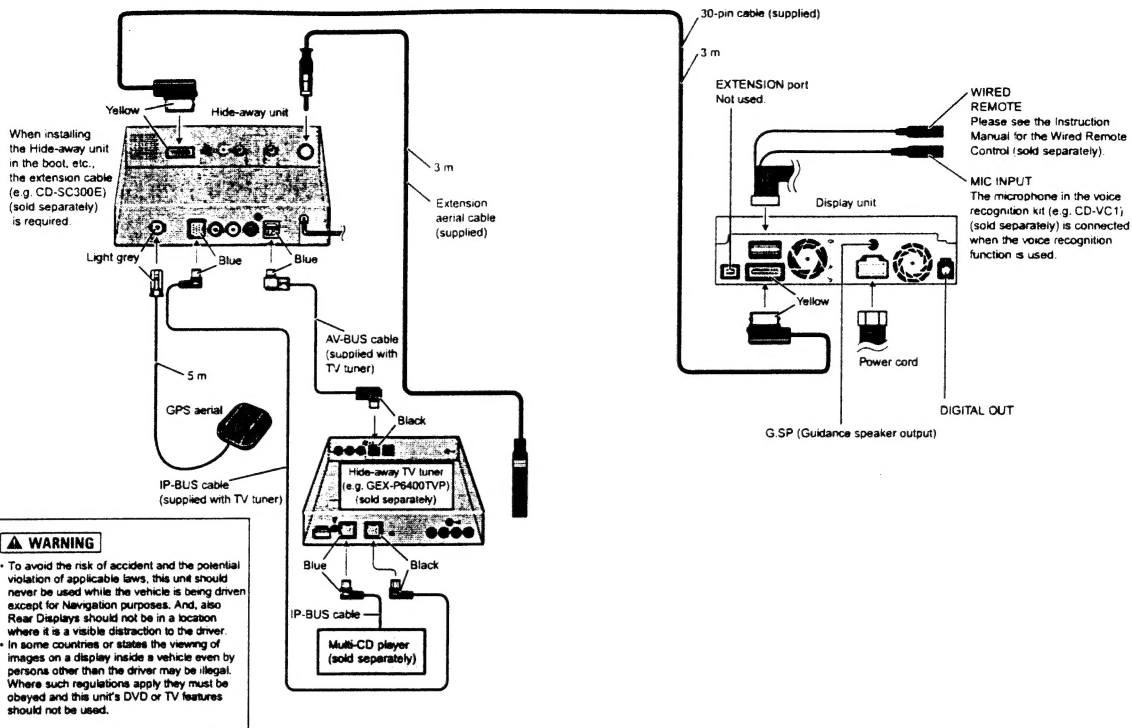
Rotate to increase or decrease the volume. Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

(23) LCD panel

(24) LCD screen

(25) Front panel





After Installing the Unit

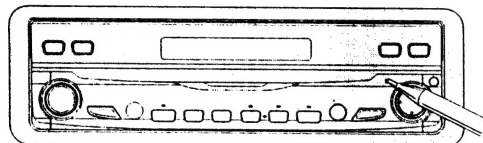
1. Reconnecting the battery.

First, double-check that all connections are correct and that the unit is installed correctly. Reassemble all vehicle components that you previously removed. Then reconnect the negative (-) cable to the negative (-) terminal of the battery.

2. Start the engine.

3. Press the RESET button on the display unit.

Press the RESET button on the display unit using a pointed object such as the tip of a pen.



4. Enter the following settings:

- Install the programme in the navigation system.
- Drive until the initialized sensors start operating normally.
- Set the time and language.

Note:

If you reconnected the Hide-away unit, press the RESET button.

After installing the unit, be sure to check at a safe place that the vehicle is performing normally.

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● JIG's List

Function	Name	Jig No.
CC Unit (CN609) <--> Main Unit (CN3801)	PCB	GGF1461
CC Unit (CN609) <--> GGF1461	40P FFC	GGD1170
CC Unit (CN609) <--> GGF1461	20P FFC	GGD1209
CC Unit (CN608) <--> Monitor PCB (CN4002)	PCB	GGF1483
CC Unit (CN2701) <--> Panel PCB (CN5901)	18P FFC	GGD1208
Monitor PCB (CN4002) <--> GGF1483	36P FFC	GGD1366
Monitor Adjustment PCB	PCB	GGF1416
JIG connector Assy	PCB and FFC	GGF1463
Monitor PCB ("FOR SERVICE" 14P terminal) <--> GGF1463	14P FFC	GGD1323
TEST DISC (Operation check)	CD-ROM or DVD-ROM	GGV1137
DVD pickup lenses	CLEANING LIQUID	GEM1004
DVD pickup lenses and Fans	CLEANING PAPER	GED-008